

INDUSTRIAL PROCESS NEWS

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IPN

Single controller for robot and machine axes optimises productivity

The final steps in the packaging operation of a pharmaceutical manufacturer includes cartoning,

stacking, and palletising. With the need to increase productivity while maintaining hygiene and strict

pharmaceutical sector compliance, this process can be optimised with a conveyor and robot as part of a pick-and-place application.

The advantage of a robotic pick-and-place application is that reducing reliance on human labour can enhance efficiency. Crucially for the pharmaceutical sector, as well as other sectors that demand hygiene such as food & beverage industries, minimising human intervention also reduces the risk of contamination, especially in a cleanroom environment. An automated, robotic system also prevents human error and instead can ensure end-to-end traceability.

Vision inspection is fundamental to optimise accuracy as part of a traceable packaging process, with systems



including checkweigher, track & trace, and print & apply solutions. Specialising in this field, Shubham Automation has partnered with Estun brand, Trio Motion Technology, a motion specialist that provides control automation, including robotics. Together, this partnership has provided end-of-line solutions for a range of pharmaceutical manufacturers.

The pharmaceutical manufacturer needed to increase the speed and efficiency of the packaging process while maintaining critical standards in hygiene and traceability. This was achieved with the integration of a robot provided by Trio in support with parent brand, Estun Automation, one of the largest robot manufacturers in China.

The 6-axis robot achieves pick and place throughput of 60 bottles per minute. The easy to use system also gives the pharma manufacturer flexibility over packaging options, and the machine enables packaging in a matrix of 4x2, 5x2, 6x5, and 6x6 at the robot infeed.

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New E-commerce site from Interface Force Measurements

Interface Force Measurements, suppliers of the popular and whisper-quiet 1,200 precision series load cells are pleased to announce the launch of a brand new E-commerce website where you'll be able to order your load buttons, in-line load cells and mini s-beam load cells.



Going live on the 1st of April, <https://store.interfaceforce.co.uk> will feature the Interface G-Series of load buttons, in-line load cells and mini S-beam load cells. The Interface G-series has all the quality, reliability and performance you'd expect from a force transducer bearing the Interface name, but at very competitive prices.

<https://store.interfaceforce.co.uk> will offer our G-Series load cells on short lead times with next business day delivery for small quantities being the aim. Interface load cells at competitive prices with all the convenience purchasing online offers, what's not to like?

The Interface G-Series was launched around one year ago, becoming a popular product range with students, industrial engineers, OEMs and anyone requiring a small form force sensor offering accuracy, repeatability and Interface quality. All G-Series load buttons and load cells feature:

- Full stainless steel construction
- Individual calibration certificates to NIST traceable standards
- High output at 2mV/V
- Capacities from 4.5newtons to 50kN

If you are interested in placing volume orders or have an OEM application that G-Series products might be suitable for, please contact us directly.

Contact: Interface Force Measurements Ltd,
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Vivid unveils Easymount Hybrid Laminator



Vivid unveiled a new Easymount Hybrid flatbed laminator at the FESPA Global Print Expo in Munich.

At the show, which was held at Messe Munich exhibition centre from 23 to 26 May, the Leicestershire-based manufacturer said it unveiled a brand new Easymount Hybrid flatbed laminator. Lewis Evans, product and sales manager at Vivid, said, "The Easymount Hybrid laminator is a multi-patented innovation with unique hover technology, roll to roll technology for long run and roll-fed laminating. The new system is designed to perform, built to last and developed in-house by Vivid.

"The Hybrid laminator is a modular system that can be configured according to your specific production needs and incorporates both a traditional roll-fed laminator and a flatbed applicator. Combining the benefits of both applications into one easy-to-use flatbed laminator and saving on the need for two systems. The patented floating rollers on the Easymount Hybrid laminator save time and keeps substrates in perfect condition.

"The Easymount Hybrid laminator is an all-in-one system and the world's first laminator and applicator. This latest innovation by Vivid is a solution that can help customers improve their competitive edge, save on space & money.

"FESPA 2023 offered the perfect platform to unveil our new Easymount Hybrid laminator and showcase all our major product ranges; the VeloBlade Nexus range for wide-format digital die-cutting system, the award-winning Matrix systems for lamination, foiling & and special effects and the Easymount systems for wide format lamination."

www.vivid-online.com

New sustainable packaging from Bell for 2023

Following the successful introduction of presentation packaging made using polymers recovered from beaches and riverbanks, Bell is delighted to announce a new grade of PET presentation packaging which contains 100% post-consumer waste.



The standard recycled content for our Retran® product is 70%. The move to 100% has been a challenge and by being more selective about the consumer waste and using good grade discarded bottles, sandwich and food containers we have achieved an excellent clarity solution.

The new polymer can be used to produce formings, presentation folding boxes as well as the world famous Retran® tubing which is widely used to present hardware, DIY and sporting products.

Commenting on the development, Managing Director, Peter Lennie, stated, "Our design team have worked tirelessly through recent months to achieve a 100% recycled product. Rigorous testing has been carried out to ensure the product performs well in the market and we are delighted with the results. To differentiate the 100% from our standard product we have introduced a slight grey tint to the film which adds an attractive feature to the final presentation." Samples of Retran® 100 are available and Bell welcome any enquiries for this exciting product.

Please contact our sales team on 01582 459292 or email: info@bellpackaging.com for more information.

Springpack introduces Armour Wrap

Springpack, a leading UK-based packaging company, is proud to announce the launch of its forward-thinking logistics packaging solution, Armour Wrap. Designed to optimise cost efficiency, energy savings, and carbon emissions reduction, Armour Wrap represents a breakthrough in the packaging industry.

With the increasing focus on sustainability and operational efficiency, businesses across various sectors are seeking innovative solutions to streamline their logistics processes. Springpack recognises this demand and is committed to providing cutting-edge packaging solutions that meet

the unique needs of its customers.

Armour Wrap is an advanced nano machine film that offers unparalleled performance and cost savings. This advanced packaging solution not only enhances product protection and load stability but also minimises material waste and reduces carbon emissions throughout the supply chain. By utilising Armour Wrap, businesses can expect improved operational efficiency and a significant reduction in packaging-related expenses.

In addition to the introduction of Armour

Wrap, Springpack is delighted to offer onsite operational packaging audits. With a team of seasoned packaging experts, Springpack conducts comprehensive evaluations of customers' current packaging situations. The experts identify existing challenges, highlight areas for improvement, and provide tailored solutions to enhance efficiency and sustainability.

For more information about Armour Wrap and Springpacks packaging solutions, please visit: www.springpack.co.uk or contact Springpack directly on 01905 457000.

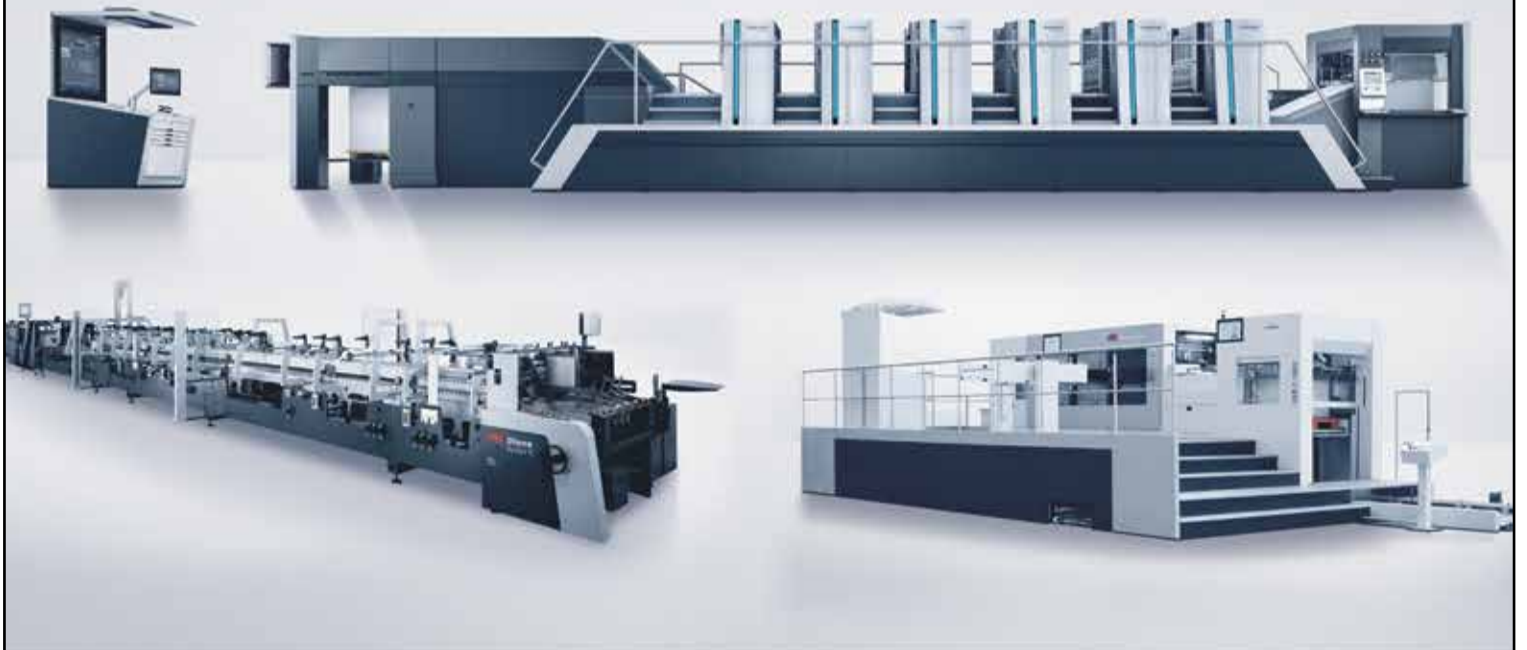


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Unblocktober founder Lanes Group backs plans to ban wet wipes

National drainage and wastewater specialist Lanes Group plc – founder of Unblocktober, the world's first campaign to improve our drains, sewers and seas – welcomes proposals to ban plastic-based wipes to tackle water pollution.

The measure is part of a wider Government plan to improve water quality in rivers and other waterways in England.

A ban on plastic-based wipes should come into force in England in the next year after a period of consultation that is due to start this month, the Environment Minister, Therese Coffey, told the BBC.

Similar bans have been considered in Wales and Scotland but have not yet been imposed.

Lanes Group, the UK's largest independent drainage and wastewater specialist, founded Unblocktober in 2019 to save sewers, waterways and oceans from sewer misuse.

The wrongful flushing of wet wipes, almost all of which contain plastic, has been a key target of the campaign,



the first to encourage people to change their waste disposal habits to prevent sewer blockages and plastic pollution.

Lanes has also launched Microplastics Out of Our Drains (MOOD) a campaign targeted at advocating stricter UK regulations on the use of microplastics in a wide range of products, including wipes and clothing.

Richard Leigh, Group Development Director at Lanes, said, "We very much welcome the government's announcement that wipes containing plastic should be banned."

"Evidence from Unblocktober make clear the urgent need to take action to reduce sewer blockages and prevent plastic pollution that damages waterways and oceans and wildlife in them.

"The enthusiastic support Unblocktober receives every year, and feedback from participants, also shows there is very strong public support for banning plastic wipes. I'm sure it's a measure that will be widely welcomed."

Wet wipes flushed down toilets are associated with 93% of sewer blockages and cost over £100m a year to clear up, according to water industry body Water UK.

Such blockages can result in local sewer flooding. Also, micro-fragments of plastic from wet wipes can make their way into waterways, and then out into oceans



where they are ingested by fish and other creatures.

The wipes often combine with fats, oils and grease, known as FOG, to form giant fatberg blockages that can fill large urban sewers, causing flooding and undermining wastewater services for thousands of homes, businesses and public buildings.

In 2017, Lanes cleared the infamous Whitechapel fatberg on behalf of Thames Water, a process that raised awareness about serious problems caused by FOG and wipes around the world, and even led to a fatberg exhibition at the London Museum.

Around 90% of wipes sold in the UK contain plastic and should never be flushed down toilets. Only paper wipes that are designated 'Fine to Flush' have been shown to break up in sewers, like toilet paper, and so do not increase the risk of blockages or environmental pollution.

Previous government consultation exercises on banning plastic wet wipes have drawn strong public support, with 96% of respondents backing the idea in



2021. Through its MOOD campaign, Lanes is seeking to raise awareness about the damage caused by microplastics by explaining what they are, as well as facts about how they get into the world's oceans, along with the impact they have on ecosystems.

Lanes delivers sewer and wastewater systems unblocking and cleaning services for water companies across the UK, including Thames Water, Severn Trent, Yorkshire Water, Northumbrian Water, and Scottish Water.

It also operates a network of 21 commercial depots across the UK, delivering drainage and sewer rehabilitation services to businesses, government bodies, public sector agencies, and domestic customers.

Contact
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www.lanesfordrains.co.uk

Lanes drainage engineers gunning for safer water jetting

Drainage engineers at Lanes Group plc are among the first operatives to undergo new training designed to develop essential knowledge and skills for when using water jetting for surface cleaning.

The Drain, Sewer and Surface Preparation up to 275 Bar practical module, or DSP for short, developed by the Water Jetting Association (WJA), includes new instruction on surface preparation.

This course is designed to develop skills that discourage the use of washdown nozzles attached to jetting hoses. These have no mechanism for instantly shutting off the water supply in an emergency.

Safer water jetting

Lanes Group Training Manager, Darren Hamilton, has been putting new drainage engineers at Lanes through the course, which combines class and practical learning to enhance productivity and safety.

He said, "Drainage engineers often use water jetting to clean contaminated surfaces, for example to deal with sewage spills, or clean access chambers and open channels.

"We want to eradicate the use of washdown nozzles for these tasks. Water jets from guns is safer. It can be instantly stopped by releasing the trigger. This provides a built-in safety mechanism to control water delivery.

"Lanes aims to set the highest possible standards. By delivering this DSP practical module, we are aligning our training and procedures with the latest WJA red code of practice for drain and sewer cleaning, which incorporates this new thinking on surface preparation."



Early adopter

All drainage operatives at Lanes, which is a member of the WJA, undergo WJA water jetting training before they are permitted to use water jetting equipment.

To achieve WJA certification, they must pass a Safety Awareness class-based course and at least one of five practical modules, of which the DSP course is the latest one.

WJA General Manager, Leanne Smith, said, "We're delighted Lanes is an early adopter of the new DSP practical module. It will ensure our training remains right up to date and relevant to the latest working practices across the drainage and wastewater industries.

"Our established Safety Awareness and Practical Module programme is accredited by City & Guilds. We are hopeful the new DSP course will achieve City & Guilds accreditation later this year."

Darren Hamilton is a WJA approved instructor. Until recently, he was also the WJA's training and safety chairman, so played a key role in developing the new DSP practical module.

Surprised by power

He said, "Our recruits appreciate the opportunity to get practical, supervised tuition. Many are surprised by the power of the reaction forces generated by both drainage jetting hose nozzles and jetting guns.

"Therefore, it's imperative that they undergo this WJA training before they are then mentored by more experienced colleagues, including supervisors and managers, when working for our customers."

The DSP module has two practical assessments: water jetting in drains and sewer pipes; and jetting for surface preparation up to 275 bar (4,000 psi) and water flow rates up to 73 litres per minute (lpm), within a maximum reaction force of 250 Newtons.

The pressure limit is set because drainage operatives commonly use lower pressures for washdown activities.

Topics covered include safe use of jetting equipment, water jetting techniques, jetting gun and nozzle types, risk assessment, use of protective clothing and equipment, site set-up, and emergency first aid.

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The best available technique that is revolutionising breather valve testing

Assentech was incorporated by Ewart Cox in 2008, who has 25 years' industry experience, with the main aim of supplying quality equipment as well as providing technical advice and maintenance support for tank storage, fluid transfer and process safety applications.

Currently, Assentech supplies products from quality manufacturers located across the Globe. Always focused on delivering quality solutions with focus on the environment, site safety, operating efficiency to protect assets, improved profitability, safeguarding stakeholder confidence and evidence compliance.

'Buying once, buying well' is a familiar phrase with Assentech customers who are encouraged to evaluate their product selection by understanding the technical specifications of well designed, quality products and not base their purchase decisions solely on price.

Assentech firmly believes that quality products have lower cost of ownership and protect the environment better than the false economy of buying cheap equipment. Located in Cornwall, Assentech also has two satellite offices based in Gloucestershire and Yorkshire. The level of specialist expertise and comprehensive service comes completely unrivalled and reflects the quality and reliability of its team members who are committed to providing clients with a unique set of benefits to which they cannot find elsewhere.



Serviced valves ready to return to customer site

"Assentech's core strength is our comprehensive understanding of breather valve functionality, compliance and comparative knowledge of the breather valve marketplace, providing our



Vent-Less with calibration accessory

environmental solutions and safety equipment for process industries dealing with flammable, hazardous or corrosive substances."

"Our main objective is to help clients achieve regulatory compliance, reduce emissions and optimise their production processes," stated Debbie Pearce, Director.

Assentech Management is also represented on two International Standards Committees, with Ewart Cox currently writing an environmental annex for API2000.

In recent news, Assentech has just launched its new innovation: Vent-Less. A ground-breaking technology that is automated with AI and algorithms. The Vent-Less AI technology has automated 2-minute testing, aligned to the test protocol of API2000 International Standard. Both vacuum and pressure ports are tested. An instantaneous, traceable and irrefutable API2000 Test Report is generated which includes verified flow curve, set point and leak rate as well as QR code labelling to simplify asset management and retrieval of test data.

customers with a unique and supportive overview to help guide decision makers."

"We are extremely proud to be certified by a UKAS accredited company to ISO 9001, ISO 14001 and ISO 45001. Our enviable reputation is the outcome of our core strengths which are to provide specialist engineering services,

A huge risk to any tank storage facility is through the breather valves that are installed on a tank. A breather valve or also known as a PVRV (Pressure and Vacuum Relief Valve) is a valve that protects tanks and vessels from overpressure and vacuum conditions. It opens when the internal pressure exceeds a set point, allowing excess pressure to escape, and opens again when the internal pressure drops below atmospheric pressure to prevent collapse. It's widely used in various industries to maintain safety and prevent equipment damage or product loss.



Vent-Less at a customer's site, testing a breather valve

With the focus on the environment, Assentech has spent 8 years of R&D to develop Vent-Less which is designed to check functionality, sealing and performance of individual breather valves on both vacuum and pressure ports.

"Vent-Less will provide a full leak and functionality test in less than two minutes as well as irrefutable results. The technology is revolutionising tank storage facilities and is unique to the world providing a best available technique to quantify, monitor and reduce emissions for environmental reporting, ESG metrics and providing valuable data for net zero analytics," said Debbie. You can find out more here: www.assentech.co.uk/automatic-mobile-smart-test-bench-for-breather-valves-pvrv-prv-improve-efficiency-and-reduce-emissions/

Vent-Less was recently used by a customer from an anaerobic digestion waste to energy facility who was looking for ways



to defend pending enforcement by the Environment Agency for emissions violation. After Assentech measured the methane leak rate of the vents they removed and replaced, the results were outstanding. The reduction in valve leak rate dropped from 90cfh (cubic feet per hour) to 0.08cfh at 90% of set point. Saving the equivalent of 200 double decker buses of leaked emissions to 0.2 of one bus. IPCC calculations this reduction represents a reduction in environmental impact cost from £62,000 to £57 per valve per annum. Vent-Less is a key instrument in Leak Detection And Repair (LDAR) planning for compliance with the Industrial Emissions Directive (IED) because it is the only technology available to quantify the volume of leakage from a valve.

In support of this innovation, Assentech has also launched a free to use environmental methane leakage calculator on its website which provides clarity on both the environmental and financial costs to leakage.

www.assentech.co.uk/anaerobic-digestion-biogas-pressure-and-vacuum-relief-valves-with-flame-arresters/
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Handling, Storage & Logistics

Modula Pallet: The new vertical solution for safe, efficient and ergonomic pallet storage

Pallet storage has always been a thorny issue. Investing in storage systems such as a stacker crane or an ASRS requires a significant outlay and structural changes that can have a big impact on flows within businesses.

It's essential to find simple, linear, inexpensive and efficient solutions, especially when the number of pallets requiring storage is reasonably small.

With this in mind, we've drawn on more than 30 years of experience in the world of vertical storage systems to produce Modula Pallet, the ideal automatic solution for pallet storage.

Modula Pallet allows a limited number of pallets (a maximum of 100) to be stored and handled in metal trays with a capacity of 1,000kg each. The machine autonomously lifts the pallets, which simply have to be placed in the front or side picking bay next to the storage system. This means that all pallet movement work can be done with manual or electric pallet trucks. There is no need to lift the loads: they can simply be left in the dedicated space during the loading process.

Of course forklifts can also be used, or loading can be done automatically with conveyors, AGVs or AMRs (Autonomous Mobile Robots) through specific integrations with the Modula WMS (Warehouse



Management System).

Mixed storage as well as pallets

Compared to stacker cranes and to traditional pallet storage systems, this type of process is brand new. It offers concrete benefits in terms of ergonomics & safety for staff and goods, which no longer have to be moved at heights. Thanks to this system, there is no need for pallet truck or forklift operators to work at heights.

Modula Pallet provides the scope for mixed use of its storage space, with some trays being used for pallets and others for single items or other goods that are not on pallets. This can be achieved by equipping the Modula storage system with opposing bays: one specific pallet bay and one that works like a simple Modula Lift bay.

A range of configurations

Various Modula Pallet dimensions are available. It all depends on the height available in the premises and the chosen tray width, with room for 1, 2, 3 or 4 Euro pallets depending on whether you opt for the ME, MA, MX or ML model.

Modula Pallet automatic storage systems can reach heights of up to 16 metres and store up to 90,000 kg, giving savings in floor space of more than 90%.

In addition to all of the advantages of Modula vertical technology (such as ergonomics, savings in space and time, easier inventory management, safety and control), Modula Pallet has three more substantial benefits to offer:

- Dynamic management of loading heights, which minimises the empty spaces between trays. The layout of the trays inside the storage system is optimised and a dedicated 'job' is used to move them in such a way as to ensure that the highest point of each tray is as close as possible to the lowest point of the tray above it.
- Optimised positioning of the trays, so the ones that are used and moved most often are nearest to the bay, thus meaning that it takes less time to call the goods.
- Modula's WMS (Warehouse Management System) software not only controls all operations but also enables technologies such as AGVs, conveyors and AMRs to be integrated, for increasingly automated loading and unloading operations.

However, as the name itself suggests, the biggest benefit of all for those who choose Modula systems is



their modularity.

A number of storage systems can be placed alongside each other, with either front or side loading bays. It's even possible to have a number of storage systems with just one loading bay and one unloading bay, because the internal shuttle can move from one unit to another if they are all lined up in a row!

This gives Modula Pallet an even greater capacity to adapt to different needs in industrial environments and in all fields!

www.modula.com



Treston BiOX: Wood-based bioplastic storage option

Treston introduces a sustainable and environmentally friendly solution for industrial storage areas with Treston BiOX. These wood-based bioplastic bins are a groundbreaking innovation, allowing industrial customers to make eco-conscious choices.

The carbon-neutral Treston BiOX bins are made from over 90% renewable wood-based material, derived from residue in the pulp production process, and cellulose fibres sourced from sustainably managed forests. Despite being environmentally friendly, the quality, appearance, and texture of these bins remain unchanged compared to traditional plastic bins. Esa Siljander, CEO of Treston, expresses enthusiasm for providing carbon-neutral options to customers and emphasises Treston's commitment to high-quality, long-lasting solutions that minimise resource consumption. Treston aims to



gradually offer eco-friendly alternatives to all fossil-based plastic products, with the ultimate goal of achieving a completely carbon-neutral workstation. The materials used in Treston BiOX bins are sourced from UPM, a leading global forest industry composite manufacturer, as well as Woodyly, an innovative Finnish startup. This collaboration marks the first development of wood-based plastic products for industrial use by both companies. The newly launched BiOX shelf bins are just the beginning, as Treston plans to introduce additional storage bin options and solutions in the future. The Treston BiOX bins are recycling-ready and can be ordered today. For more information, please contact Treston below.

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Throughout distribution & manufacturing sectors, competitive pressures are driving the demand for faster, more accurate order fulfilment. For many manufacturers and operators of industrial processes, demand is growing for real-time access for replacement inventory and spare parts to ensure uninterrupted operation.

The use of automated, software-driven solutions such as vertical carousels, vertical lift systems, vertical Buffer modules and horizontal carousels for inventory picking can slash fulfilment times, labour needs, and warehouse footprint requirements, while vastly improving throughput and worker productivity. To meet this demand the goal is to use a combination of automation technologies and improved workflow processes to reduce the time required to pick, pack and ship items. Such an approach can help warehouses and distribution facilities to become more productive and competitive.

A variety of automation technologies are available to improve both the speed and accuracy of the picking process and workflow. When dynamic systems are coupled with improved workflow procedures related to order-fulfilment, picking and shipping, facilities can drastically improve overall inventory management within the facility and boost customer satisfaction.

Automated storage solutions are used by many for improved space utilisation. By maximising the use of under-utilised overhead space from the floor to the ceiling, traditional floor space requirement can be reduced by as much as 65-85%. For many it can mean the difference between staying put or moving to larger premises. Another major factor is improved working conditions. Automated solutions are designed with the worker in mind. Not only do they help to reduce foot travel but are ergonomically designed. By bringing the goods to the person, bending, reaching and carrying is greatly reduced, which is faster and safer for staff.

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Obso Global's five-point plan

Recent findings by the Chartered Institute of Procurement & Supply (CIPS) found that the downturn in UK



manufacturing accelerated at the end of 2022. Moreover, the rate of decline was among the steepest during the past 14 years. Companies reported that recent output had been scaled back due to declining intakes of new work and disruption caused by stretched supply chains and material shortages.

Long lead times prove to be a huge challenge for businesses attempting to source genuine parts for equipment and machinery. That's why Obso Global has launched a new guide, which outlines five simple steps operators can take to help source and stock new and refurbished parts for production; helping to mitigate the risk of unplanned downtime and maintain productivity.

Available to download for free, the five-point plan guides operators through the key steps to take to reduce the impact long lead times are having on businesses. It includes guidance on the importance of an operational strategy for parts' procurement, developing contingency plans or using a third-party provider for bonded stock holding. The plan has been compiled using insight from Obso's experienced technical team, which has helped many customers across the world combat the stresses of ongoing supply shortage and parts' availability.

For further information, please visit: www.obsoglobal.com or call 0800 36 888 17 to speak with an experienced Obso advisor. To download a copy of the free five-point plan, please visit: www.obsoglobal.com/uk/sourcing-automation-parts-made-easy

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New sustainable 2K cartridge for 400mL 1:1 expands the MIXPAC™ greenLine™ portfolio



MIXPAC greenLine 400mL 2K cartridge made of up to 100% of PCR

medmix has continuously developed sustainable alternatives for existing 2K cartridge-based dispensing solutions. After the successful launch of the 50mL greenLine 2K cartridge set, the 400mL variant, also based on post-consumer recycled (PCR) material, has extended the sustainable greenLine family, offering a 38% CO₂ reduction compared to the conventional plastic variant.

With the new family member, MIXPAC greenLine cartridge sets include a 50mL and a 400mL version, both made of up to 100% PCR polypropylene. This next generation of mixing and dosing solutions is designed to enable customers to reduce their CO₂ impact and achieve



Complete MIXPAC greenLine 400mL system for 2K applications

sustainability goals without any compromise on performance or quality.

One of the standout features of the new 400mL cartridge is a CO₂ reduction of 38% in comparison to standard propylene cartridges. The MIXPAC greenLine 400mL 1:1 F-System Set sets a new standard, offering the highest concentration of PCR polypropylene within a 2-component cartridge system available on the market. Produced from up to 100% recycled material, the 400mL cartridge also reduces waste, and therefore, strengthens the circular economy.



greenLine trademark logo for all MIXPAC products on PCR basis by medmix Switzerland AG

Both greenLine cartridges were designed with the MIXPAC system approach. The well proven mixers and dispensers from medmix are perfectly matched to the application. This ensures safe and reproducible processes, high precision and ease of use. According to Tobias Bodenmüller, MIXPAC Technology Expert, the greenLine concept stands for, "maximum performance with less CO₂," medmix has determined the carbon footprint improvement of some of its products through life cycle assessment (LCA) methods and can share this data with customers, allowing them to calculate the carbon footprint of their own products using the MIXPAC greenLine cartridges.

For details, please visit our website at MIXPAC™ greenLine™ B-System Set 50mL (www.medmix.swiss) or contact your medmix representative.

About medmix

medmix is a global leader in high-precision delivery devices. We occupy leading positions in the healthcare, consumer and industrial end-markets. Our customers benefit from a dedication to innovation and technological advancement that has resulted in over 900 active patents. Our 14

production sites worldwide together with our highly motivated and experienced team of around 2,100 employees provide our customers with uncompromising quality, proximity and agility. medmix is headquartered in Baar, Switzerland. Our shares are traded on the SIX Swiss Exchange (SIX: MEDX).

Contact
www.medmix.swiss

"Euromixers IBC mixers quickly re-mix & re-suspend solids that have settled out during transport or storage"



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MMD Mineral Sizing Europe Ltd

MMD have been a global leader for over 45 years in the design and manufacture of innovative material processing equipment. Our core products, the Mineral Sizer™ and Apron Plate Feeder, feature in ground-breaking in-pit solutions that enhance productivity, profitability, safety, and promote sustainability in the mining industry.

MMD's revolutionary Bulk Ore Sorting System combines the benefits of In-Pit Sizing and Conveying with pioneering ore analyser technology. The ore analyser distinguishes between grades of material, enabling the separation of ore from waste



at the mine face. By allowing this to happen earlier in the process, trucks need only to haul ore, not waste, to the processing plant. The results are up to 10% less energy usage and a lower cost per tonne. Efficiency advantages are passed on to the

downstream processes too, with less water consumption, ore grade uplift, and SAG mill benefits. These MMD systems are currently operating in South Africa, Chile and Brazil, processing copper, platinum and nickel ore.

We invest heavily in developing new technology that maximises efficiency. We are committed to helping our customers achieve their sustainability targets and lead the way towards a greener future for the industry.

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info@mmdsizers.com
www.mmdsizers.com

Over-moulded lumbar structure

William Hughes has been helping a prominent European car manufacturer develop an over-moulded carrier plate and wire frame for use as the backrest on the driver and passenger seats in its range of saloon cars and SUVs.

What started out ten years ago as a reasonably simple wire assembly project involving only wires with a plastic backplate pressed into them has evolved, with William Hughes' expert guidance, into a much more sophisticated over-moulded assembly with a pressed bracket.

This achieves a number of benefits including cost savings and reduced assembly time.

Production has now moved to Bulgaria



The over-moulded lumbar structure assembly developed by William Hughes

where William Hughes has created an additional fully automated robotic cell dedicated to this assembly at its factory in Plovdiv. The robot takes the wire after bending and presents it to the press which then assembles the bracket.

The lumbar structure, which is made from 5mm galvanised spring steel over-moulded in polypropylene, supports various holes for wires and a fan vent along with clips to position wires and tubes which hold a plastic air bag in place while facilitating controls for a massage function.

In the beginning, the production run amounted to 70,000 parts but such has been the efficacy of the overall operation that William Hughes is now producing 700,000 units per annum.

For further details, contact William Hughes Ltd.

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POLYNICES project launched in Europe

POLYNICES is a research and innovation effort to provide a general-purpose photonic integration platform that meets all the cost, performance, scalability and manufacturability requirements for the next generation of photonic modules.

The POLYNICES project was officially launched with the kick-off meeting held on 12 & 13 January 2023.

All eight members of the consortium gathered for a two-day productive meeting at the premises of TOPTICA in Munich to analyse in detail the POLYNICES work plan, to specify in detail the role of each partner in the implementation of the project and to define the next actions.



POLYNICES will develop a fully integrated FMCW THz spectrometer with >2THz bandwidth, 8THz antenna array and beam steering abilities for plastic quality inspection, a 16x16 quantum processor with integrated 780nm light source & non-linear crystals and a 24x24 quantum processor with integrated squeezed light state source. The POLYNICES technology provides a holistic approach to photonic integration and packaging and can certainly make advanced photonic modules affordable for SMEs.

Specifically, POLYNICES will spin-coat Fraunhofer's PolyBoard material on PCBs for the first time to realise a low-cost electro-optical PCB (EOPCB) motherboard with low-loss single mode waveguides and good RF properties, which will host silicon nitride chips, InP components and micro-optical elements for advanced functionalities in properly formed pockets. POLYNICES takes advantage of Lionix's Si3N4 platform with PZT actuators to realise matrices and novel narrow linewidth external cavity lasers in 1x1cm² chiplets with ultra-low power consumption.

For more information, visit POLYNICES' website at: <http://horizon-de-polynices.eu>

High power picosecond pulse laser

The picosecond pulse laser series FPYL-Q-PS is offered with peak power up to 100W at a repetition rate of 1MHz and a pulse width of <10ps. Available wavelengths are 266nm (1-8W), 355nm (1-50W), 532nm (1-80W) and 1,064nm (1-100W). The repetition frequency range is between 400kHz and 2MHz. The power stability is <3% (<1% optional). The pulse-to-pulse stability is <2%. Both are measured in rms and over 4 hours. The output beam is transverse mode TEM00 and has high beam quality of M2<1.2. With a beam diameter of ~3mm and a divergence <1mrad the output beam is very well collimated.



The laser will be delivered with an appropriate power supply for the voltage range 100-240V as well as a water chiller.

Due to the high power with pulse widths <10ps these lasers are excellent suited for micro material processing. Typical applications are:

- Flexible Materials Processing
- Brittle Materials Processing
- OLEDs Processing
- Glass & Ceramic Cutting and Drilling
- Semiconductor Industry

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Essentra exceeds sustainability targets

Essentra Components, a leading provider of essential components and solutions, has exceeded its 2025 Scope 1 and 2 emissions targets and is reshaping its sustainability strategy to focus on helping customers achieve their sustainability goals.



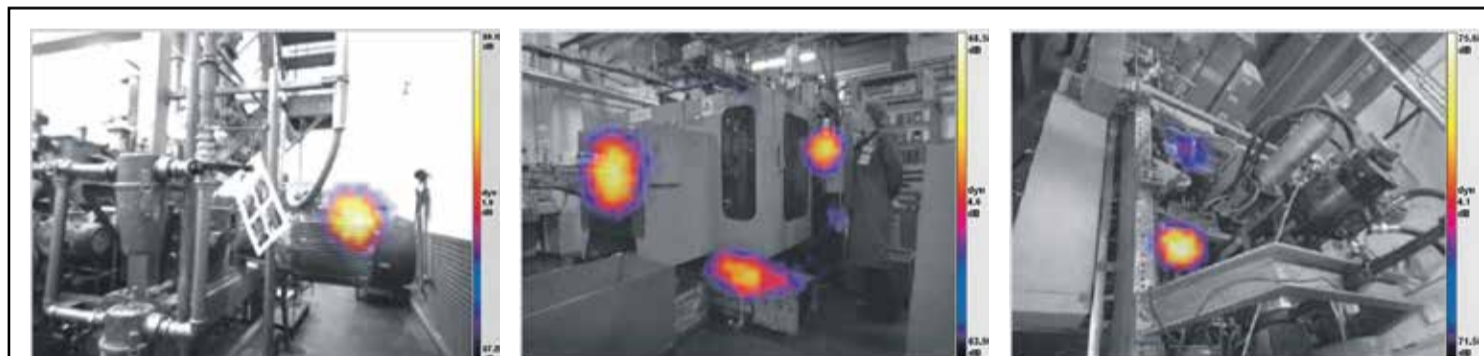
According to the latest figures published in its 2022 Annual Report, Essentra's components manufacturing operations have reduced direct emissions by 27% and emissions intensity by 35% since 2019. These results exceed the 2025 target of a 25% reduction in emissions intensity, three years ahead of schedule. These results support Essentra's aims to reach Net Zero in its operations by 2040 and along its value chain by 2050.

The business is also ahead in other targets. In 2022, 12 component sites, double that of the previous year, achieved Zero Waste to Landfill, and overall waste intensity has reduced by 25% against the 2019 baseline, meeting its 2025 target ahead of schedule.

In publishing its results, Essentra has also revised and is expanding its sustainability strategy across five pillars: the planet; its components; its culture; its communities; and Essentra's customers. For the first time, it is setting Scope 3 emissions targets which will be science-based and independently assessed and reviewed in line with the Science Based Targets initiative (SBTi). These new Scope 3 emissions targets will support both Essentra's own ESG goals and those of its customers.

Essentra is also innovating with new sustainable materials. In 2022, it successfully completed 29 new product trials, and today, recycled polymer makes up 10.8% of total polymer materials used. The plan is to use 20% recycled materials by 2025. Most LPDE products manufactured at the Kidlington site in the UK use 50% recycled content, and many are 98%. These component products help Essentra's customers to reduce their own product emissions and avoid Greenhouse Gas (GHG) emissions in their supply chain.

www.essentracomponents.com
www.essentraplc.com



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Industrial Process Technologies

Partnership with ALTER TECHNOLOGY

Frankfurt Laser Company is pleased to announce a contract based partnership with ALTER TECHNOLOGY UK

Alter Technology Group's core business is Photonic and Microelectronic based Semiconductor Assembly and Test Services but has recently been developing their own laser diode products and platforms.

They have been standardising their most common laser diode package offerings into a series of product and platform data sheets. As a packaging company, with full end to end laser diode assembly and test services in-house, their strength is the ability to offer a wider range of flexible and customisable laser diode solutions than offered by most laser diode manufacturers. By starting with bare laser diode chips from multiple chip manufacturers they can quickly and easily offer the market with a range of laser diode package solutions at various wavelengths and powers with agreed performance and specifications. This standardised approach results in no development costs, shortened lead times and reliable laser diode modules in industry standard packages. Many of their customers are OEMs/System Integrators who are looking for a laser diode solution that is not offered by commercial off the shelf laser diode manufacturers without significant NRE and long lead times.



Their core standard platforms are broken down into the following categories:

- 1. REMOTE** – VBG stabilised lasers into butterfly packages
- 2. DRUMMOND** – Collimated laser diodes into a thermally stabilised and hermetically sealed butterfly packages.
- 3. FLAME** – FLAME is a compact, frequency stabilised laser module with integrated vapour cell that allows locking to spectral features of an atomic reference for metrology and quantum applications.
- 4. DEWAR** – Collimated TO-can package to provide collimators at a wide range of wavelengths and power levels

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“What Happened to PROFIBUS?” Seminars

This seminar addresses the key practical issues arising from the use of digital communication technologies in automated manufacturing and process industry applications, with particular attention being paid to new developments in PROFINET, OPC UA, IO Link Safety and Cyber Security.



Covering key application areas such as system design, installation, testing, maintenance and secure connection to data analytics and dashboards. The event also counts towards your CPD points.

We recently held a very successful seminar attended by almost 50 people at Ford Dunton. The event focused on the use and practical application of PROFIBUS, PROFINET and IO-Link in industry, and how important these technologies are when developing Industry 4.0 solutions.

Other issues addressed in the seminars were cybersecurity and the ongoing development of 2 wire ethernet. We are hosting a further event at the AFRC, Inchinnan, close to Glasgow Airport on the 22nd June.

If you were unable to attend either of these events, you can now view and download the presentations. All of the presentations are available to download from our website, or by contacting our Chairman directly: chris.mccomb@profibus.com

What happened to PROFIBUS? – AFRC, Inchinnan, 22nd June 2023

https://piuk_afrc.eventbrite.co.uk

New thermal conductive adhesives



As a result of their collaboration, Bostik and Polytec PT are launching a new range of thermal conductive adhesives (TCA) to address the challenge of thermal management in the latest Cell-to-Pack (CTP) battery design for e-mobility solutions.

Thermal management is vital to ensuring the operating temperature of EV-Battery systems remains between 20°C and 40°C for optimum battery life and performance. Thermal interface materials (TIM) such as TCAs are essential to battery design to ensure a robust thermal connection between the battery/cell environment and the cooling elements. With the trend towards fast charging for e-mobility, the importance of thermal management – and TIMs – is increasing significantly.

The new XPU TCA 202 is a two-component, polyurethane-based adhesive specifically designed for heat

dissipation in battery pack assemblies. It perfectly tackles the challenge to balance thermal conductivity with high mechanical strength while maintaining good levels of flexibility thanks to high elongation.

Its low-monomer content allows it to meet the most stringent regulations and enables easy product handling without specific training.

At a practical level it is also fast and easy to process through automatic mixing, dosing and dispensing equipment. It adheres well to most substrates without using a primer, and cures at room temperature.

The launch follows the recent announcement on 17 May of the planned acquisition of Polytec PT by Arkema.

Contact www.bostik.com

Chemicals

Cepac makes two Board appointments

UK-based Cepac Ltd has confirmed the appointment of two new members to its Board of Directors.

Stuart Gilder and Alastair McDonald have joined the Board as Directors, with effect from 1st May 2023. As existing members of the management team, both Alastair and Stuart will also continue in their current General Manager roles, reporting directly to Steve Moss, Group Managing Director.

“We are entering an exciting period of significant strategic change and expansion at Cepac, and both

Alastair and Stuart bring considerable experience and expertise to strengthen the Board of Directors,” says Steve Moss. “Their responsibilities will of course be across the entire business, but Alastair will focus his attention on the Rotherham and Rawcliffe sites, while Stuart will focus on the Darlington and Doncaster sites. In addition, Stuart will work closely with myself and Adam Clifton, General Manager, Flutepac, as we grow the Flutepac business based in Altham, in close partnership with our Darlington site.”

Steve Moss concludes, “We have some wonderful developments ahead of us, following the

announcement of the machinery investments for Rawcliffe, the acquisition of the Flutepac business and the recently announced 11 acre site acquisition in Rotherham. Having Alastair and Stuart as Directors undoubtedly strengthens our Board, further ensuring we hit our strategic objectives. We welcome them both.”

www.cepac.co.uk

L-R: Stuart Gilder & Alastair McDonald have both been appointed to Cepac's Board of Directors, with effect 1st May 2023



British Adhesives & Sealants Association

With its history dating back to its inception in 1983, BASA has excelled in its mission to become an umbrella organisation for UK adhesives and sealants manufacturers. We focus on technical and legislative aspects and on promoting awareness of the industry and technology by providing guidance on technical and compliance issues and creating a variety of networking opportunities for members, holding events using virtual platforms since March 2020.

BASA is the voice of the adhesives and sealants industry's and is an information source for manufacturers and suppliers. The association advocates on behalf of its members, liaises with Government regarding legislation, and keeps Members well informed of UK, EU and International proposals and initiatives.

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

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

T 03302 233290
www.basa.uk.com



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

STRONGER BONDS MAKE BETTER BUSINESS

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

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UNISIG's approach to automating surgical instrument manufacturing

As surgical instrument manufacturers pursue greater throughput while facing increased labor costs, automating the medical instrument manufacturing process has become a necessity. However, integrating automation into the gundrilling process for drilling deep holes in extremely precise surgical instruments in lights-out operation is a major engineering challenge requiring more than simply pairing a robot with a deep-hole drilling machine.

The right machine, tools and process must all come together to create small holes with extreme precision in difficult-to-machine materials such as titanium and surgical stainless steel. More importantly, the entire system must flow from a unified concept where the whole is greater than the sum of its parts.

To meet these challenges, UNISIG developed its UNE6-2i-750-CR dual independent spindle gundrilling machine. The UNE6-2i is capable of gundrilling hole diameters ranging from 0.8-6mm in part lengths measuring up to 30 inches with depth-to-diameter ratios from 20:1 to more than 100:1. The machine has a maximum combined drilling speed of 28,000rpm and a 3,000psi (207) bar programmable flow-based coolant system with dedicated pumps for each spindle to ensure precise coolant pressure control.



Automating hundreds of cycles of precision manufacturing, however, is not possible unless the overall operation is considered from the outset. Surgical instrument manufacturing is a sequential process: parts must be loaded into the machine in a particular way for specific operations that happen in a specific order.

Workpiece length, shape and configuration determine where it is gripped by the robot when loaded into a machine, moved from spindle to spindle for drilling, residual cutting fluid removed, and returned to the pallet. Where a part is gripped impacts where it is clamped for drilling to ensure accuracy. Every variable along the process chain must be considered and accounted for, and the calculus is detailed and complicated.

Then there are unique customer needs and requirements. The equipment and process must accommodate a variety of part families and hundreds of parts to increase runtime and efficiency. Operators must be able to change over part types and programming without calling in an automation specialist, and the entire process must be controlled from a central interface. Add to the mix that everything must be packaged in as small a footprint as possible, and the scope of the engineering challenge comes into focus.

UNISIG's approach to solving these problems, however, results in targeted automation that enhances the existing benefits of gundrilling, ensuring a solid foundation for reliable process-wide automation.

At its core, the automated UNE6-2i is a purpose-built machine with automation embedded in its design, not added as an afterthought. Flexibility and adaptability are maximised by a harmonious, interdependent mechanical, software and operational planning scheme.

To meet size constraints, a 6-axis robot was embedded in the machine with a pallet system on the backside of the machine, allowing easy operator access from the front to setup the machine without compromising ergonomics. The configuration enables quick setup changes between prototype and proving operations and full production runs.

The robot automatically repositions the workpiece from the front of the first spindle into the rear of the second spindle without operator input. The process of drilling a part from both ends in a single-piece flow is unique to UNISIG. Workpieces with enlarged

features on one side are loaded from the rear of the collet, solving a common problem in gundrilling medical surgical instruments with full automation.

Control of the UNE6-2i and a computer are consolidated into the Human Machine Interface (HMI), a menu-driven touch screen system for easy, intuitive operation. Training and operator engagement with the system is significantly reduced due to user-friendly UNISIG controller menus and prompts.

UNISIG's comprehensive and integrated approach to automating medical part manufacturing is a vision that sets it apart in the industry. It's more than drilling the impossible hole. It's a commitment to understanding and to the research that drives continuous improvement and innovation for automated part production at its full potential.

Further information on all machines and the complete UNISIG machine programme is available



at: www.unisig.com or follow the company on LinkedIn and Twitter (@UNISIG). You will also meet us at the EMO 2023 show in Hannover, Germany, from 18-23 September.



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Genesis™ Multiphase Detector

The birth of a new type of level profiler

With the growth of TDR based level instrumentation, there is an emphasis on expanding the use of TDR into multiphase applications where mainly high-priced profilers or multi-probe arrays exist today.

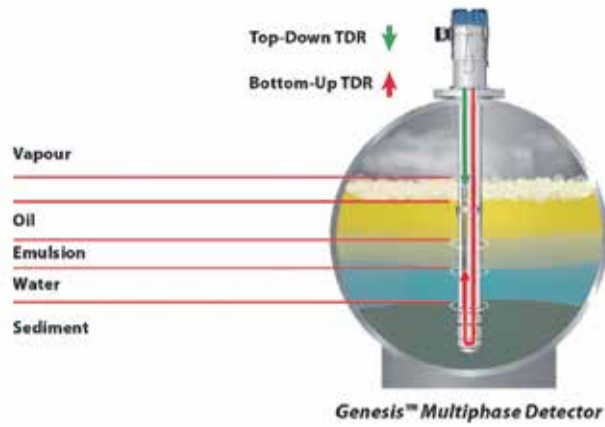
Magnetrol's Genesis Multiphase Detector is a Time Domain Reflectometry (TDR)-based, 24 VDC level detector designed to accurately define and quantify the various layers in multiple interface level measurement applications. Encompassing a number of significant developments from Magnetrol's progressive engineering team, this innovative level detector can deliver a full interface profile of a vessel with performance which surpasses many of the more traditional technologies.

Utilising patented 'Top-Down' and 'Bottom-Up' signals, along with advanced level detection algorithms, this single device can be used in a wide variety of interface applications ranging from very light hydrocarbons to water-based media. For example, Genesis can be used to define the multiple interfaces in a separator vessel (sandwater-emulsion-oil-gas) with exceptional precision and can even determine the magnitude of any emulsion layer.

Multiphase level measurements exist throughout the process industries and are particularly relevant in the Oil & Gas and Petrochemical sectors due to the value derived from effective water and hydrocarbon separation. While level instrumentation has come a long way in measuring liquids of all varieties, multiphase level measurement is often considered the greatest challenge in process control.

This detector, like other Magnetrol devices, is designed to maximise ease of wiring, configuration, and viewing of the versatile graphic LCD display.

Despite the fact that there has been considerable



effort by instrumentation manufacturers to measure multiphase levels, only now is there a cost-effective TDR-based multiphase level detector capable of widespread adoption. Radiometric and nucleonic technologies can profile multiphase media conditions, potentially without intrusion into the process vessel; however, they come with high upfront costs, regulatory burdens and increased safety requirements.

Genesis builds upon the proactive diagnostics found in Magnetrol's Model Eclipse 706 GWR in order to actively monitor build-up on the probe; enabling operators to streamline maintenance and reduce downtime.

For more information on Genesis, please email: info@able.co.uk
T 01189 311188
www.able.co.uk



The future of water meter testing

Xylem opens one of the largest testing facilities in Europe

This month, global water technology leader Xylem (NYSE:XYL) will officially open its new testing facility for bulk water meters in Laatzen (near Hannover, Germany).

The new facility is a major investment in its metrology branch Sensus and a dedicated commitment to the success of the new ultrasonic bulk water meter, CordoneL.

In this new test bench, CordoneL and other bulk water meters can be tested in real installation and extreme environmental conditions, thanks to its so-called UOD0 section (90° bend in front of & behind the meter) and integrated climate chamber.

It is one of the very few test benches in Europe that can test water meters up to DN 300. Extensive testing under real installation conditions, high precision components and fully automatically controlled processes ensure constant accuracy in the testing process, therefore Xylem plans to extend the operation to testing meters by other suppliers as well.



The planning & realisation of the project was supported by the Xylem Rental Solutions team, who help to solve even the most complex water challenges with their expertise. Furthermore, many Xylem products are installed in the test facility, such as Flygt pumps and Wedeco UV disinfection systems.

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EEMUA: Safety, efficiency, and compliance experts



Industrial Process News is again proud to name the Engineering Equipment and Materials Users Association (EEMUA) as our Industrial Training Company of the Year, for its pivotal role in helping improve the safety, environmental and operating performance of businesses' industrial facilities.

It is the second time that EEMUA has won this well-deserved recognition. Stefan Kukula, EEMUA's CEO, told us in 2022 that the association had "initiated the 'next step' and now know how far, and how fast, we can go, and what more we can do. As a result, we have set up some ambitious projects." We didn't appreciate back then just how ambitious EEMUA's plans were. Now we could not fail but be impressed by the pace of development that EEMUA has sustained throughout 2022 and 2023 to produce three more blended learning courses for the industrial engineering community.

Building on the success of its first blended learning course, the Mechanical Integrity Practitioner Certificate (MIPC®) course, EEMUA has developed 'EEMUA 159 TankBasics', 'EEMUA 231 Mechanical Integrity Basics', and 'EEMUA 194 Subsea Engineering Basics'. That's a significant expansion across several of the industries, sectors and disciplines in which a multitude of EEMUA members operate – as a corporate membership organisation, EEMUA has a membership covering many industries globally.



The membership is also the source of EEMUA's deep industry knowledge – actively contributing to development of all EEMUA's resources (guidance publications, checklists, forums, webinars, seminars and more... as well as training).

EEMUA members' participation ensures that resources are verified (through experience of people who do the work daily) as practical 'how to' guides for efficient, safe, good practice – 'by industry, for industry' is EEMUA's mantra.

The MIPC course has run twice a year since launch. It is an in-depth course for practitioner-level engineers and runs over multiple months. The overall intensity of practitioner-level learning required by industry is managed by dividing into weekly learning of approximately four hours per week – to accommodate learning around busy schedules of valuable personnel while on-site, on-call or wherever suits them.

Available to all in industry, EEMUA's new blended learning courses adopt the same approach and enterprise-class learning platform as MIPC and benefit from the process of constant improvement used by the association to finesse MIPC courses. 'EEMUA 159 TankBasics', 'EEMUA 231 Mechanical Integrity Basics', and 'EEMUA 194 Subsea Engineering Basics' blended learning courses all boast carefully composed combinations of live classes, one-one tutorials, e-learning and more.

All course elements are online using the latest, proven technology to enable valuable team members to upskill all the while remaining where they're needed – on-site, on-call or wherever suits them. All EEMUA's training courses are expert-led by experienced practitioners of industrial engineering. The quality of training is complemented by robust certification through an end-of-course exam to satisfy industry demands for people with proven skills.

The courses form part of a broader range of training options so that individuals and their companies can select the type of training that most suits them at the time they can best use it. Options include: e-learning, classroom, blended, live online, in-house, in English, French, German, or Dutch languages. These training selections enable companies and individuals to compose entire careers of professional development, covering 'Awareness', 'Basic application' and 'Practitioner' levels.

You can see how the experience and expertise that EEMUA shares with members continues to give it an advantage. "We are different because of the connection we make between courses and the market. Free from shareholders and owners, EEMUA invests all its revenue into sharing practical guidance resources, events, training, and more – rooted in our guidance publications and accepted worldwide by both operators and regulators and all developed 'for industry, by industry'." EEMUA's two-way approach helps members to improve operating, safety and

environmental performance of their industrial facilities in the most cost-effective and proven way. It also enables EEMUA to act as the voice of users, representing member company interests to national and international regulators.

Stefan finished with a note of déjà vu by telling us how it feels to receive this award for a second time. "Our team works hard to make the most of members' contributions of know-how and experience, so once again we share this recognition with EEMUA's membership."

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Vision Engineering launches new version of its bestselling Mantis optical stereo microscope

Vision Engineering, the world-leading provider of innovative inspection, metrology, and digital 3D visualisation solutions, today announced the launch of Mantis 3rd Gen, the latest addition to its best-selling and award-winning range of ergonomic optical stereo microscopes.

Mantis is in use in tens of thousands of R&D, manufacturing and analytical sites around the world. Mantis 3rd Gen incorporates the latest developments in optics, digital cameras and fully adjustable LED lighting, to keep Mantis at the forefront of stereo imaging.

Mantis is designed for precision engineering, electronic engineering, medical device manufacture, and a wide range of other applications that require high-quality images and superior ergonomics. It features a unique, patented, eyepiece-less design that delivers a large, high-quality optical stereo image directly into the user's eyes, making it more comfortable and easier to view than traditional microscopes.

Manipulative, rework and restoration tasks need stereo images, to allow easy hand to eye coordination and depth perception.

Mantis 3rd Gen combines stereo optical images, with high resolution camera options for manipulation and recording.

Mantis 3rd Gen features long working distance and excellent depth perception, now with a choice of 3 magnifications, making it ideal for a wide range of applications. It also now comes as standard with five different ways to illuminate your subject, giving you the flexibility to adjust the lighting to get the perfect image for your needs.

In addition to its outstanding image quality and ergonomics, Mantis also features a powerful digital imaging system that allows you to capture, review, and share high-resolution images. This makes it easy to share your work with colleagues, document



your findings, and train new employees.

Substantial R&D has resulted in a new range of stand options, to allow flexibility, stability and reduced footprint

"As our customers have told us for the last 28 years, Mantis is an ideal solution for anyone who needs to perform precise work with small objects," said Mark Curtis, Managing Director at Vision Engineering. "We invest substantial R&D time and effort in exploiting the opportunities that fast moving optic, digital and lighting technologies offer our dedicated customer base. Mantis 3rd Gen offers the best of both worlds: superior ergonomics and optical image quality, combined with the latest digital imaging technology."

Mantis is available for purchase now. For more information, please visit: www.visioneng.com/mantis

Southern Manufacturing & Electronics Show Review – Top Exhibitors

Southern Manufacturing & Electronics celebrates its 25th anniversary

On the 7th-9th February 2023, SME held its annual exhibition that was also co-located with AutoAero, an expo devoted to aerospace and automotive engineering at the Farnborough International Exhibition Centre.

Southern Manufacturing and Electronics is the most comprehensive annual industrial exhibition in the UK. Originating as a small, regional show, SME is now internationally recognised as a major-pan European showcase for new technology in machinery, production equipment, electronic production and assembly, tooling and components as well as subcontract services across the industry.

Each year, the event attracts hundreds of industry professionals, and 2023 was no different. A variety of businesses involved in mechanical engineering,



electronics, robotics, printing, instrumentation, and industrial manufacturing were at the show displaying and showcasing new and innovative products to potential and existing customers.

Complimentary seminar programmes ran over the three days in three separate theatres and addressed the technical, managerial and environmental issues currently facing the manufacturing and engineering sectors today.

Some of the seminars included talks from Chris Haydon, Head of

Content at FINALLY Agency who gave a talk on 'How to build a content marketing strategy for 2023,' 'Making it Happen: The Art of Effective Strategy Deployment' by Ailsa Carson from Onsite Insights, and 'CE and UKCA Marking, 2023 and beyond' by Tim Harrison from CE Marking Association.

SME 2024 will be held on the 6th-8th February at the Farnborough International Exhibition Centre. This is our second pick of the best exhibitors from this year's event, listed here in alphabetical order: EISO Enterprise, ESI Technology, Incap Electronics, PCB Recruitment, Sapman v12, Sharmic Engineering, SIC Marking, Southern Electrical Recycling & Thorite. Further details can be found on this page and the next.

www.industrysouth.co.uk

Sharmic Engineering

Sharmic Engineering recently exhibited at the Southern Manufacturing and Electronics Exhibition. The event was an opportunity for Sharmic to showcase their products and services to a wide range of potential customers, as well as to engage with other industry leaders and innovators.

One key benefit of the exhibition was the ability to meet both new and old faces in the industry. Sharmic was able to connect with potential customers who may not have been aware of their offerings previously, as well as re-engage with existing customers who were interested in seeing their latest products and services.

Another important benefit of the exhibition was the opportunity to engage with new innovative projects. The event included a wide range of different exhibitors, including both established companies and newer startups, all of whom were showcasing the latest technological innovations and advancements in their respective fields.

Overall, the experience of exhibiting was extremely positive for Sharmic. The event provided a valuable opportunity to connect with people and companies in the industry, learn about new technologies and innovations, and ultimately generate new sales and business opportunities.

The success of Sharmic at the event can be attributed to their commitment to showcasing high-quality



products and services, as well as their willingness to engage with potential customers and partners in a meaningful way.

Overall the event provided a wealth of opportunities to connect with people and companies in the industry, learn about new innovations, and ultimately generate new sales and business opportunities.

T 01299 878123
info@sharmic.co.uk

Award winning digital pressure measurement

ESI Technology's Dynamic GD4200-USB digital pressure transducer has proudly been named Sensor Product of the Year 2022. Let's take a closer look at just some of the details that secured the crown at the IEAs...

The hardware

Made from a specialist titanium alloy, the USB transducer comes with a variety of thread options and offers excellent chemical compatibility. Capable of measuring up to 5,000 bar pressure reference. The use of ESI's Silicon-on-Sapphire (SOS) sensor technology combines the insulating and elastic properties of Sapphire. This allows the sensor to perform consistently at an accuracy rate of $\pm 0.15\%$ of span BFSL across a wide temperature range.

The software

The ESI-USB software is downloadable from our website using the credentials supplied on purchase. The sample rate allows the user to view pressure data measured with up to 21-bit resolution at selectable



speeds up to 1,000Hz, with a range of pressure units and a fully adjustable scale to choose from.

Pressure test readings can be downloaded into customised test reports, and users can access features such as leak testing or data markers with ease.

Compatible with Windows 8 | 8.1 | 10 | 11

Contact
www.esi-tec.com

Record working dimensions for the new XXL-Box

"After the huge success of the L-BOX and XL-BOX, our compact marking stations, we have been asked on numerous occasions to offer a larger workspace in order to be able to mark large parts." These are the words of Eric B, Marketing and Sales Director at SIC MARKING, world leader in industrial traceability, to justify the launch of the new XXL-BOX Laser Marking Station.

Available in 3 basic sizes at a very competitive price, the XXL-BOX perfectly complements SIC MARKING's laser workstation wide range of products, which makes it possible to meet all customer requirements in terms of cabinet size.

As its name indicates, the new XXL-BOX station offers record working dimensions (up to 520mm high) as well as great modularity thanks to its 3 standard models (800, 1,200 and 1,600mm wide) and its numerous accessories. The strength of this new product also lies in its ability to adapt perfectly to different customer requirements, illustrating SIC MARKING's extensive know-how in the realisation of tailor-made solutions.



Requested by a large number of customers, the new XXL-Box Laser Marking Station has met a great success with ETIs and large companies manufacturing large parts or sub-assemblies such as shafts, valve or pump bodies, crankcase, exhaust components but also bodywork sub-assemblies. It is not surprising to find it in the sectors in which SIC MARKING is already active: Automotive, Aeronautics, Industrial Vehicles, Hydraulics, Oil & Gas...

T +44 (0)1926 830372
salesuk@sic-marking.com
www.sic-marking.co.uk

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Southern Manufacturing & Electronics Show Review – Top Exhibitors

World class RF & MMwave PCB service

Our sustainably manufactured circuits are produced in our own factory in Taiwan giving a secure supply chain for those looking to transition from other regions as well as customers looking for a long term relationship.

Experts in RF and MMwave circuitry our facility makes not only high quality PCBs but also batches with a high degree of repeatability so important for critical layouts and higher speed functions.

In addition we also build HDI PCB with



multiple stacked Uvia and any layer constructions in a wide range of materials including many for specialist applications such as very high speed, low Dk or specific Df.

At EISO we understand the need for flexibility in supply and our engineering led production service will ensure your project gets off to the best possible start and our laminate stock holding makes certain you always have an upturn capability.

We look forward to hearing from you and being a key part of your PCB supply chain. We are always available to discuss your requirements and you can get in touch with:

Clara@eiso.com.tw
frank@eiso.com.tw

Sapman v12 ERP: A complete ERP software system

Sapman v12 ERP is an Enterprise Resource Planning (ERP) system for manufacturing, assembly, distribution and full stock & warehouse control; Sapman v12 integrates with Sage 50, Sage 200 and other accounting systems.

We've developed the software over 25 years and constantly improve the product as new technologies emerge. Over the past year we've introduced the option of Business Intelligence (BI) Dashboards to build on our 100+ standard reports. We've improved our Planning Board and our use of

scanning technology on both Shop Floor and Warehouse.

We found these three areas were the most asked about at the recent Southern Manufacturing Show – where we very much enjoy chatting to existing and future clients. The complete flexibility of licensing, with no fixed or minimum terms plus the absence of upfront costs – makes the decision to go with Sapmanv12 ERP a simple one. Immediate Rol is a great incentive!

We pride ourselves that we can tailor each



new installation to meet our clients' needs by listening to, and understanding their requirements. Get in touch to arrange an on-line meeting and demo with our MD & Technical Director, Alastair Fraser.

Contact
T 0333 456 1212
info@Sapmanv12.co.uk
www.Sapmanv12.co.uk

Thorite's energy saving campaign shortlisted for two key awards

A campaign which shone a light on the high cost of wasted energy in compressed air systems has put Thorite in the running for two major awards.

The compressed air and fluid power specialist created the 'Behind Closed Doors' campaign to raise awareness in the manufacturing sector about unseen compressed air inefficiencies which lead to high energy bills a negative environmental impact.

The campaign has now been shortlisted for Best Marketing Campaign in the national Instrumentation Excellence Awards and for the Creative for Good Award in the Prolific North Creative Awards.



Thorite's Marketing Manager, Carl Davenport, said, "We're very proud that our small in-house team has been recognised amongst some of the biggest and best creative agencies in the country."

"Our aim with the campaign was not only to highlight the financial and environmental impact that wasted energy has on UK manufacturing when it goes unmonitored, but also to provide energy saving solutions to manufacturers who need to rein in costs during this tough economic climate."

The Prolific North Award winners will be announced on June 29th and the Instrumentation Excellence Award winners on October 19th.

Contact: Carl Davenport, Thorite Marketing Manager
T +44 (0)1274 657035
carl.davenport@thorite.co.uk

Incap UK: Full-service provider in EMS

As a trusted partner and full-service provider in Electronics Manufacturing Services (EMS), Incap UK presented its experts and introduced its services at the Southern Manufacturing & Electronics Show 2023.

As part of the international Incap Corporation, Incap UK highlighted its EMS capabilities, including PCBAs, electro-mechanical assembly, cable and wire harness assembly alongside a dedicated standalone rapid prototyping facility (Fast Track) and maintenance, repair and overhaul services (MRO).

Incap's factory in the UK has experience in manufacturing since 1974 and over 20 years



of experience in the defence, security and aerospace markets. The factory has 4,400m² of total floor space and its customers include global companies with operations in Europe, Asia and North America.

The factory based in Newcastle-under-Lyme brings together the high-level technical capabilities and leading-edge production technologies that are normally associated with multinationals, with an approach to customer service that is based on partnership and personal service. Incap UK was proud to introduce its state-of-the-art technology backed up by an entrepreneurial culture and highly qualified personnel.

The Incap UK team is looking forward to the 2024 event, aiming to build on the momentum and continue forging strong industry connections.

T +44 (0)1782 753200
salesuk@incapcorp.com

Southern Electrical Recycling

Having visited the Southern Manufacturing & Electronics show for the past three years as a visitor. We decided this year to set up as an exhibitor with a small pitch.

The three days, although very tiring at times, were very beneficial to our company to promote our services. Many good contacts were made and we have since followed this up with new clients from the show.

Southern Electrical Recycling Ltd are an electrical and electronic recycling company based in Portsmouth AATF (Approved Authorised Treatment Facility). The highest level of compliance approved by the Environment Agency.

ISO 9001 & 14001 approved we work



alongside businesses including Veolia, NHS Trusts, Harrods, Selfridges and too many more to mention. Our collections include anything with a plug, battery and POP's items, from a laptop, fridge, toner cartridge, fluorescent tubes, confidential paper shredding to an office chair.

Always looking to improve our services we have recently invested in a mobile data destruction vehicle for the secure wiping and destruction of hard drives. With the latest

machine providing individual photographs of each hard drive. This facility can be used both onsite or offsite at the client's request.

We pride ourselves on offering each company an individual service, tailored to meet their needs. This meets all the legal requirements with a full paper trail including weights of each categorised items collected.

So if you are looking from a company that cares about the environment and can offer a full range of secure waste management, then give us a call today.

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Industrial Training



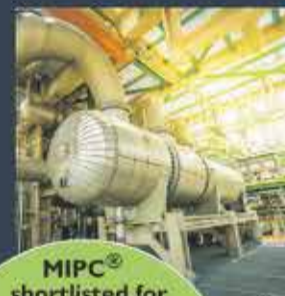
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Surface Finishing

Denso Bore-Wrap™ protects power station gas pipeline

Winn & Coales (Denso) Ltd, leading manufacturer and supplier of corrosion prevention and sealing systems, recently supplied their abrasion resistant outerwrap (ARO), Denso Bore-Wrap™ for use on sections of a new 2.7km natural gas pipeline constructed to service Kilroot Power Station, situated on the north shore of Belfast Lough. The contract, secured by GMC Utilities Group with their joint venture partner Rayden Engineering, is part of a £600m decarbonisation scheme to transform the coal fired power station and create a new low carbon energy park.



The welded steel pipeline from Marshallstown Above Ground Installation (AGI) to Kilroot AGI was mainly installed by open cut methods, but at road crossings, including one on the A2, the pipe was installed by horizontal directional drilling (HDD). To ensure that the integrity of the anti-corrosion

coatings on the pipe was maintained, Denso Bore-Wrap was applied to these sections prior to pulling the pipe under the roadways. Once pulled through, the ARO showed no signs of damage, indicating no damage to the coatings underneath and clearly demonstrating the exceptional mechanical protection offered by the system.

Contact
T 020 8670 7511
mail@denso.net

Denso™ Clear Outerwrap is applied while the ARO is curing, then removed once fully cured. The undamaged Denso Bore-Wrap™ is visible after the pipe is pulled (inset)

Pumps & Valves

Oliver Valves custom-design DBBs for offshore project



Oliver Valves have manufactured a number of 2" double block and bleed valves for a huge offshore project. The bolted end trunnion DBB valves have been designed using ASTM A350 LF6 carbon steel material and are designed to API 6A, with a maximum pressure rating of 5,000psi. The order forms part of Oliver's continued supply of DBB valves to the project that include Tie-in and Wellhead platforms.

Valves currently in production at our UK factory in Knutsford, Cheshire, are undergoing a specific manufacturing and assembly process at the request of the customer. This includes custom spray-paint finishing for added protection against the harsh offshore environments of oil, water, and gas injection platforms.

Picture shows valves in production.

For more information on how Oliver Valves can custom-design valves for your energy project, contact us on +44 (0)1565 632636 or email: sales@valves.co.uk or visit: www.valves.co.uk

Oliver Twinsafe engineers let off steam

Oliver Twinsafe, in partnership with their official distributor HT-PCE, collaborated with an industrial processing plant in solving huge leakage problems experienced on steam applications.



Their existing metal-seated valve design had to be improved and even replaced, and for good reasons. Their valves had only a single isolation design, and exposed the risk of leakage due to the number of potential leak paths they contained.

The perfect solution would be for the valve design to have far fewer leak paths, metal-seating with zero-seat leakage, and a compact design that reduces overall space and weight.

Fast forward a few weeks and the engineering team at Oliver Twinsafe custom-designed a 2"/300lb Double Block and Bleed (DBB) valve supplied complete with actuators and utilisation of all ball valve operation. The team took onboard all of the technical requirements, used existing and proven valve technology and materials to create the perfect solution to this problem. It's often said, that when engineers creatively let off steam, it usually results in some of the most amazing solutions, and this has been no exception.

On completion of initial trials, the 2" DBB valves are to be installed on other UK and overseas processing plants.

For more information on how Oliver Twinsafe can custom-design valves for your processing plant using the very best in valve design and technology, contact us on +44 (0)1565 632636 or email: sales@valves.co.uk or visit: www.valves.co.uk

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HPC's White Paper offers guidance on Fixed vs Variable Speed Drive screw compressors

While some compressed air providers will advocate the use of Variable Speed Drive (VSD) screw compressors in all applications, a new White Paper authored by HPC Compressed Air Systems challenges this assumption.

In its White Paper, titled 'Fixed Speed Drive vs Variable Speed Drive Screw Compressors', HPC explains that VSD screw compressors are not the one-size-fits-all compressed air solution that VSD proponents would have customers believe.

"It is vital to analyse your own compressed air demands to determine whether a Fixed Speed Screw Compressor, VSD Screw Compressor, or a combination of the two is right for your application," says Mathew Gould, National Distributor Manager at HPC Compressed Air Systems.

"In many cases, VSD Compressors may not be the most efficient or cost-effective choice."

He adds, "HPC understands that selecting the right compressor(s) for a facility's compressed air demands is crucial. That's why we have created a free White Paper on the difference between Fixed Speed Screw Compressors and VSD Screw Compressors."

What's inside HPC's White Paper

HPC's White Paper covers some of the most important considerations when choosing the right compressor for your needs, including:

- The differences between Fixed Speed and VSD Rotary Screw Compressors
- How Fixed Speed & VSD Screw Compressors work
- Which type of Screw Compressor is the most efficient (and under what conditions)
- VSD Harmonics



- Motor energy losses
- Specific Power variances
- Energy savings
- The value in Compressed Air Energy Audits.

Conclusions

Ultimately, what matters most, the White Paper concludes, is the compressor's efficiency.

"The key to a compressor's efficiency is its Specific Power," says Gould. "This means the compressor's complete package & compressed air system needs to be considered to ensure the most efficient solution."

To ensure this, the White Paper recommends an Air Demand Analysis (ADA) is completed to determine the customer's individual air requirements.



"This enables customers to identify the most economical and efficient configuration, whether that is a single or multiple Fixed Speed solution, a VSD solution, or a combination of the two," concludes HPC's Gould.

HPC KAESER: 'More Air, Less Energy'

HPC KAESER's strategy to specifying a compressed air solution boils down to 'More Air, Less Energy'. KAESER's Sigma Airends are sized to perfectly produce the optimum output at the highest efficiency while all HPC KAESER compressed air equipment has the lowest internal pressure drops throughout the compressor, limiting energy losses.

HPC KAESER compressed air

equipment also has the lowest operating temperatures, from the inlet of the compressor, through energy-efficient cooling fans, optimum sized coolers, and excellent energy temperature control.

The lower the operating temperature, the greater the efficiency.

Choose HPC KAESER for your compressed air needs

HPC and its Authorised Distributors are experienced and qualified to design, install, and tailor the compressed air system to meet your individual requirements while maximising efficiency. Peace of mind is also provided that all work will be in accordance with HPC guidelines and current legislation.

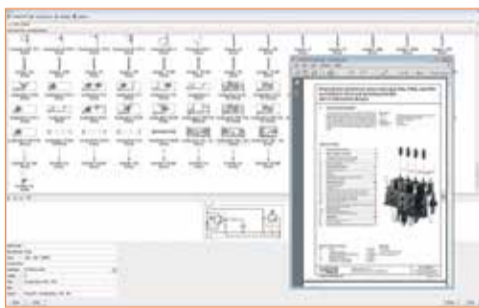
HPC and its Authorised Distributors are also able to offer a variety of service plan options tailored to your needs. Get in touch to speak to an experienced and knowledgeable HPC KAESER trained engineer about your compressed air needs.

To download the 'Fixed Speed Drive vs. Variable Speed Drive Screw Compressors' White Paper, visit: www.hpccompressors.co.uk/white-papers

Find out more about HPC's compressed air solutions and other services by visiting: www.hpccompressors.co.uk

Hydraulic Design Software Package Company of the Month

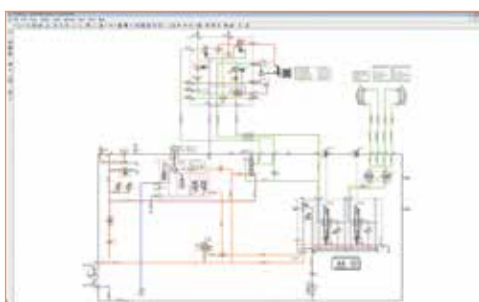
Flawless design of your hydraulic system schematics



In this issue of Industrial Process News, we are delighted to announce PARO Software as our Hydraulic Design Software Package Company of the Month.

Schematic symbols are a beautiful, unique visual language of drains, flow, pilot lines, flexible hoses, pneumatic, hydraulic and electrical lines. To the trained hydraulic engineer's eye, it's a road map to the operating principles of an intended machine.

Paro Software is an industry-leading hydraulics software development company, based in Heemskerk,



The Netherlands. It was established in 1974, by expert hydraulics engineer: Jos Paro as a consulting service for hydraulic system design customers.

The 1980s was a pioneering decade for computing, with the birth of the first personal computers such as the Macintosh and IBM PS/1 and PS2 and during this time, Jos developed the HydroMan software solution. The solution helped Paro design hydraulic manifolds on an unprecedented, quick basis. Sadly, Jos died in 1989 and his wife, Margot Paro and Frank Halma then took over the running of the business. HydroMan was successfully launched to businesses looking to design hydraulics manifolds in-house, using this innovative software solution. In 2003, Marc Paro took over the second-generational running of the company and the inception of HydroSym began.

Marc and Frank wanted to push past the mere 'schematic translation of design manifolds' and develop a more purposeful, innovative software solution, catering for the design of hydraulic system schematics. With illustrious roots in hydraulic engineering, the company has diversified to become a formidable powerhouse in hydraulic design software solutions.

The current HydroSym redaction is a complete software package, providing flawless designs of hydraulic schematics. With access to 40,000 hydraulic components from the built-in library, it can be seamlessly integrated into PDM/ERP. From gas pumps, amusement park rides to theatrical presentations, there is no limit on imaginative hydraulic design and HydroSym is a next-generational software design package for all global engineering companies.

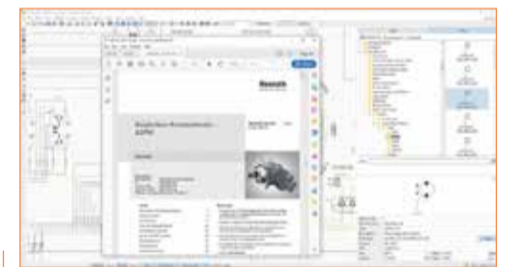
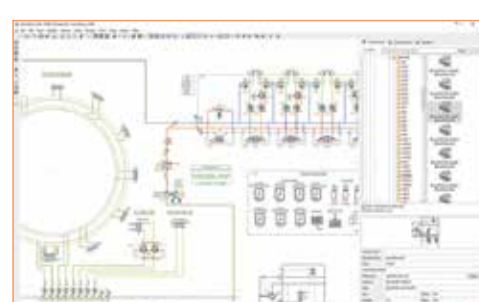
The HydroSym has had exceptional reviews from customers, hailing it, "the best schematic software I



have ever used" and "perfect enrichment."

The dedicated, stand-alone software solution is user-friendly and nor does it require prior knowledge of CAD software systems, negating any additional costs required for CAD installations. With quick, intuitive functionality, it offers seamless hydraulic designs in a fraction of the time.

Jos Paro's pioneering HydroMan has evolved for the current times and allows stunning 3D hydraulic manifold designs. When the design is finished, a simple click will reveal a comprehensive drilling list, production and assembly drawing, bill of materials and checklist, allowing a fully autonomous process.



We spoke to Managing Director, Marc Paro, to find out more, "Paro offers three very fast, complete and easy-to-use software packages for hydraulic design – fully developed in-house: HydroSym, to draw hydraulic schematics, HydroMan, to professionally design hydraulic 3D manifolds and finally, HydroCAM, for the production of hydraulic manifolds.

"We have over 500 clients worldwide, across many hydraulics industries, from dentistry drills to large military ships. Our goal is to offer a flawless, efficient software package system to engineers in the field, to enhance their day-to-day hydraulic design process.

"There have been a few exciting new updates: HydroSym has been pushed to a new and exciting level. The intuitive software, together with our extensive PARO library of hydraulic parts, allows engineers the convenience of clicking and adding components from the library directly into their worksheet. This saves hours of design work. With our latest update, the library has become much richer with the capability of customising hydraulic parts instantly. This puts our software into a whole new category of product configurator."

From the original, pioneering HydroMan design, under the watchful eye of Jos Paro, this vibrant Dutch company has continued to break boundaries in schematic software, delighting engineers worldwide with its digital speed and mastery.

For more information or to book a free trial today, see the website below:
T +31 (0) 251 233 785
info@paro.nl
<https://paro.nl/>

Wieland Electric presents new emergency stop buttons



In times of a shortage of skilled workers, technical devices that can be installed in a time-saving manner and, if possible, without the need for highly qualified personnel, come into their own.

Wieland Electric has such a solution ready for safety technology in mechanical engineering and intralogistics: New emergency stop buttons are available for the safe, manual shutdown of machines and systems. Thanks to the M12 connection, they can be easily integrated into plants and systems using pre-assembled M12 standard cables.

With the introduction of the new emergency stop buttons, Wieland Electric not only meets the increasing demand for M12 connections in industry, but also expands its portfolio with ready-to-use variants that offer numerous advantages due to their plug and play installation.

This includes reducing installation time and cabling effort as well as avoiding cabling errors during installation. Thanks to the compact and robust design, the emergency stop buttons can be installed in control cabinets and panels, but are also suitable – thanks to the IP65 and IP67 protection class design – for installation in the field where harsh ambient conditions prevail.

www.wieland-electric.com

24V DC UPS solution

Bicker Elektronik has introduced a new DC UPS solution for long-term backup applications.



The 24V emergency power supply is equipped with the particularly safe and durable LiFePO4 battery technology and offers backup times of up to 100 hours.

Consisting of the UPSI-2406D intelligent charging and control unit and the BP-LFP-13250S battery pack, the DC UPS solution is ideal for protecting embedded industrial PCs, controllers, drives, sensors, measuring systems, lighting and safety technology and many other applications. In the event of a power failure, voltage dip or flicker, system failures and data loss in safety-relevant applications can thus be effectively avoided. In addition, the new UPS management software 'UPSCOM' with cross-platform technology and intuitive user interface offers extensive functions for monitoring, parameterisation and messenger services.

The powerful LiFePO4 battery pack BP-LFP-13250S with 330Wh enables backup times of up to 100 hours, for example for sensor applications or emergency lighting systems. The lithium iron phosphate battery technology (LiFePO4) convinces with over 6,000 charge and discharge cycles and an extended temperature range from -20 to +55°C. The high-performance battery management system (BMS) integrated into the battery pack to optimise service life and safety monitors and controls the complete charging and discharging process of each battery cell of the energy storage unit. The integrated cell balancing ensures a balanced and even charge of all cells so that the full capacity of the LiFePO4 battery pack remains permanently usable. The BP-LFP-13250S has a UN 38.3 transport certificate.

Contact
www.bicker.de

Improving safety of at-home medical devices

When a home medical device manufacturer approached industrial heating technology manufacturer Watlow, for a thermal solution for its home hemodialysis device, Watlow delivered an innovative solution that not only met requirements for size and safety, but also improved the overall system.

Innovation in thermal solutions, including heaters, sensors, temperature controllers, power controllers and supporting software working together as an integrated system, can make a difference. Watlow's engineers used knowledge of the full system standards and system level requirements to help the customer create an optimised system architecture for its home hemodialysis device. This featured a FLUENT in-line heater with a ceramic substrate tube and polymer fittings to create an entirely non-metal surface.



The FLUENT heater addresses efficiency and electrical safety concerns with a size and weight footprint that is smaller than legacy solutions. In addition, using thermal spray, the heater makes use of its entire surface to produce heat, which optimises heat transfer and temperature uniformity.

The goal of Watlow's customer was to design a home hemodialysis device that met all safety guidelines while being portable and convenient for patient use. Using a systems approach helped Watlow to navigate the engineering tradeoffs between size and safety without compromise, to produce a safe device with a small footprint. Watlow has extensive experience understanding how to meet the required trade-offs and develop a design suitable for many applications.

www.watlow.com

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- Improved pull-off performance enables soldering of fine-pitch components
- Compatible with all current solders and fluxes
- Compatible with current Pillarhouse nozzle mounting system
- Exclusively available on all Pillarhouse machines using wettable nozzles

June 2023

Pillarhouse International Ltd.
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Explosion protection



In this issue of Industrial Process News, we are pleased to feature MacClancy and Sons Ltd as our Explosion Protection Equipment Specialists Company of the Month.

MacClancy and Sons Ltd was established in February 2020 by Michael MacClancy with the aim of providing explosion protection to the bulk solids, filtration and food & beverage industries. Since September 2021, when his son James MacClancy joined the business full time, the company has gone from strength to strength named as the exclusive agents to UK and Ireland for VigilEx by STIF products.



The STIF company is the first French company specialised in the production of components for bulk handling products, and has gained a solid reputation by exporting a large range of different products including explosion protection equipments. Its products are sold all over the world via subsidiaries, independent local distributors, or sales and consultancy services who have been specifically selected for their conscientious and their skills.

VIGILEX safety protection equipment is a product range designed and manufactured by STIF, whose consistent research and development enables them to create and manufacture these leading-edge technology machines. VIGILEX marks the



first product that a French manufacturer has entered into the explosion vent panel market that proposes a flat, curved, bent or round panels that satisfies most needs. This constant investment means that STIF is always at the top of any technological advancement in the safety protection equipment market and guarantees high performance with all its products because of its tried and tested methods and tools that have been optimised by its team of experienced and innovative engineers.

James joined his dad in business in a sector that was not uncommon to him. Working previously in the oil and gas offshore UK industry, James's experience became much needed particularly after the sad passing away of Michael that left James in charge of the company. James now runs the company out of his home office in Strathaven, Scotland, alongside his brother who currently works for the company part time.



As a sales and consultancy business, MacClancy and Sons Ltd exclusively sell VIGILEX explosion protection to a number of industries including food & beverage, filtration, bulk material handling, LEV, and essentially anything with a combustible dusty atmosphere, and one product worth paying particular attention to is the VigiSpace® Deflector.

"We've now got a new product – the VigiSpace®, which is an explosion panel deflector. How it works is that you basically install the panel upside down and then fit the VigiSpace® Deflector on to the panel. That then sends any flame or explosion



pressure upwards and away from any safe working area. Usually these units will be outside and so when an explosion occurs not many would think to protect the surrounding areas from the explosion pressure or flames. By surrounding areas I mean car parks or the surrounding environment of the work area to which the explosion or fire could spread to and affect buildings, vehicles or even personnel. The VigiSpace® Deflector basically protects these areas and takes away all risk factors by sending the danger upwards," said James.

The VigiSpace® Deflector works because it essentially limits the opening angle of the explosion vent and guides the pressure, flame and heat relief upwards. One of its great advantages is that by reducing the dimension of the hazardous surface the VigiSpace® helps to reduce the safety zone to a minimum and increases the useful space of your installations, while ensuring maximum protection against explosions. However, please be aware that the VigiSpace® must be used with VIGILEX VL or VD.



MacClancy and Sons Ltd largely work with OEMs who are producing filtration and LEV equipment, and lately the company has witnessed a sizeable increase in this audience. James explained, "We have seen a big influx of LEV installers and fitters recently, enquiring about and purchasing the products. One product that has been particular popular with this audience is the VigiFlap® Explosion Isolation Valve. It has many great benefits to this sector but its main benefit is that these have been certified to be installed both vertically and horizontally to which a lot of our competitors haven't."



The VigiFlap® Explosion Isolation Valve is a non-return valve designed to prevent overpressure or flame caused by a downstream explosion such as dust collectors, filters, and cyclones, to propagate in the piping system. The valve is held open by a lever arm and can be used both at the entrance and at the exit of the filter. This allows to isolate the filter from an explosion or an overpressure. In case of explosion, the valve closes and remains locked preventing the progress of the flame. The unlocking of the flap is done manually. It's important to note that not all valves are the same, therefore, unlike other isolation valves, the VigiFlap® is certified and guaranteed to close with unlimited elbows or bends between your vessel and the valve.

What really puts MacClancy & Sons Ltd ahead of its competitors is their speedy delivery times. Its ability to cut lead times in half compared to any competitors is because of its partnership with French manufactures STIF who have given MacClancy & Sons Ltd priority for the UK market.



Looking ahead, James is keen to get his brother on board full-time so they can continue growing the business together. In closing, we asked James if he had anything else to add, "The entire VIGILEX range is superior to anything else that's currently on the market. The products are so good they basically sell themselves. They are cheap to buy and work everytime. They are all certified with the highest protection and we are proud to be the exclusive UK representatives for this line."

Contact
M 07884 350337
info@macclancyandsons.co.uk
http://vigilexuk.com/addresses/



Cleaning, Hygiene, Health & Safety

PED 1780 Wearable Particulate and Noise Measurement

Pambry Instruments has further developed the range of Wearable Environmental Monitoring Equipment with the new Particulate measurement device. The PED 1780 is small and light enough to be attached to your workwear to monitor the user-experienced noise level/dose and particulates present during the working day. The instrument is calibrated and conforms to health and safety standards and can be configured to use custom levels for specific requirements.

The PED 1780 measures Particulate Matter (PM1.0 to PM10.0), Noise Level, Noise Dose, CO₂, CO, VOCs and ambient temperature/humidity with a range of optional sensors. The data can be downloaded to a PC for use in Health and Safety reporting and record retention, and for early warning of trending issues that may harm your personnel. This is the latest product in the range of Noise Level/Dose monitoring, Noise Alert, CO₂/NO₂/O₃/VOC Alert products.

Pambry Instruments is part of the Pambry Electronics Group based in Dorset, UK. Pambry Electronics is a worldwide distributor of cables and connectors, cable assembly manufacturer, microphone and speaker specialist, and provides custom design and manufacturing services to the industrial and military sectors for over 50 years.

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Work safely in potentially explosive areas

Schmersal presents new safety light curtains/grids in Ex design

The Schmersal Group has expanded its range of optoelectronic protective devices with a series of safety light curtains/grids in Ex design. The new EX-SLC/SLG440 series is designed in the ignition protection types EX d (gas atmospheres), EX t (dust atmospheres) and EX op is (optical radiation) and is thus especially suitable for access protection of potentially explosive areas in industrial production – namely for zones 1 and 21.

There is an elevated risk of explosion in many areas of manufacturing, such as in the chemicals industry, in refineries or paint shops where flammable coatings are being used. In industries that process bulk materials, such as in the animal feed or recycling industries, as well as in sawmills and plants that process cereals and grains, there is a risk of dust explosion and the occasional formation of a potentially explosive dust cloud during normal operation.

Schmersal has developed the SLC/SLG440 safety light curtain/grids in Ex version precisely for these applications. These devices can be installed in potentially explosive gaseous and dusty atmospheres of zones 1/21 and 2/22, category 2GD and are used to protect hazardous areas and machine access. When one or more of the beams is interrupted, hazardous movements are brought to a halt.

The series is ATEX certified and further certification – IECEx,



INMETRO and CCC Ex – are due to follow. The sensor system is accommodated in a protective enclosure made from non-breakable glass.

Ex-SLC440 safety light curtains for finger, hand and body detection are available in versions with a resolution of 14 and 30mm as well as ranges of between 0.3 and 20m. Ex-SLG440 safety light curtains are suitable for access control to hazardous areas.

The waterproof & dustproof devices achieve IP66 and IP67 protection class & also have the capability to be used outside.

Contact: Steve Watkins, Marketing & Business Development
T 01684 571980
swatkins@schmersal.com
www.schmersal.co.uk

Aqua Safety Showers

When it comes to the safety of workers out in the field, we are the people to contact when it comes to emergency safety showers and eye wash stations. It isn't just about the end product. We will recommend and advise you on the best safety shower solution to suit your requirement. As there is no one-fits-all approach we have the flexibility to adapt or modify our units in our manufacturing facility in Great Britain.

Our range of emergency products and equipment offer protection against serious injury and are all built to exceed ANSI/EN safety standards.

While we hope there is never the need for your safety showers to be used, having one is imperative on site should be working around harmful substances.

Our highflyer is our TS1500 unit (<https://aqua-safety.com/product/1500-tank-shower/>). This unit guarantees over 15 minutes of tepid water



without the need for a mains water supply. It can be situated indoors or outdoors and in either hot or cold climates. Temperatures are maintained around 18-20°C when heaters (and chillers) are fitted.

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Metsä Tissue

Metsä Tissue, part of Metsä Group, is one of Europe's leading suppliers of paper products including the Katrin brand. The Katrin product range includes toilet rolls, paper towels, hand care products, wiping towels and dispensing solutions.



Katrin ensures cleanliness but also takes the environmental impact into account every step of the way. Metsä's unique 'forest to end-user' value chain guarantees that Katrin products are manufactured in a sustainable and reliable way. We also lower product consumption and embrace the circular economy. In addition, Katrin paper products carry certifications for environmental excellence.

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BVC IV62 Cordless Industrial Vacuum: Eliminate trailing cables

Until recently a cordless or battery powered Industrial Vacuum Cleaner has either meant a low-powered hand held or back-pack unit or a heavy and clumsy machine with several heavy on-board 'leisure' batteries that take a long time to charge, and still may not have enough performance to be wholly satisfactory.



Quirepace have re-invented the battery powered Industrial Vacuum Cleaner by combining the well proven mid-range BVC IV60 with Honda's revolutionary new eGX battery powered engine. The BVC IV60 is usually a 1-2kW electrically powered unit utilising the extremely robust BVC YP series multistage exhauster unit.

The Honda eGX electric engine is designed to replace petrol engines in the 2.5hp class and provides more than adequate power to run the BVC YP3 exhauster unit at full design speed. This new machine is designated BVC IV62.

The Honda eGX variable speed drive allows the operator to set the run-speed for the optimum performance for the job in hand. At full power the IV62 eGX has a runtime of 30 minutes, and at slower speed this can be extended to over 2.5 hours. The eGX fast charger provides 80% charge in 1 hour and 100% charge in 1.5 hours, making continuous running possible with spare batteries.

The BVC IV62 as standard is provided with the 3-stage filtration dry product tank consisting of a paper sack collection, microfibre main filter and 3rd stage HEPA filter. This configuration is suitable for most dry-product collection applications, and the unit may be configured as both M-Class and H-Class rated units.

Optionally, different collection tanks can be specified for applications that require, for example, a wet collection tank, or are better suited to a drop-tank rather than paper-sack collection. As is usual with BVC Industrial Vacuum Cleaners there are a vast range of tool and hose options. IV62 is configured to use either 51mm or 38mm hose and tool sets depending on the application and the nature of the product to be cleaned.

The BVC IV62 eGX makes it possible to clean up the industrial workplace without the hassle and hazard of trailing cables. Instantly available power combined with a large collection volume means that it has never been easier to maintain the cleanliness of the workplace, and of course, enhance the health and safety of the environment for the benefit of all.

The BVC IV62 eGX is also ideally suited for use with high-level cleaning equipment. To coincide with the introduction of the BVC IV62 eGX, Quirepace are simultaneously introducing a range of carbon fibre high level cleaning poles configured for use with BVC Industrial Vacuum Cleaners. The pole sets and tools allow high-level cleaning up to 13m from the ground. Again, the ability to carry out cleaning operations without the risks associated with trailing power cables is a significant benefit to safe operation in the busy industrial environment.

BVC equipment (the original British Vacuum Cleaners)



are manufactured by Quirepace in Fareham, Hampshire. UK Manufacture means that spares and support are readily available, and, as usual, BVC UK manufactured machines and components have a 5 year parts warranty. The IV62 eGX has been tested and approved by Honda. The eGX engine and battery, while not directly covered by the BVC extended guarantee are directly warrantied by Honda under their global warranty and service-centre scheme. In the UK this provides a 3 year warranty on engines and 2 year warranty on batteries and chargers.

For more information or to book a demonstration of this revolutionary unit, contact Quirepace on 023 9260 3700 or email: bvcsales@quirepace.co.uk

www.quirepace.co.uk
www.bvc.co.uk

Quality cleaning products since 1948



Cleenol has been a leading UK supplier of professional cleaning and hygiene solutions for over 70 years.

Established in 1948 by the current owner's great-grandfather, Neville Foster, this family-run business has now grown to supply first-class cleaning and hygiene solutions to a broad spectrum of sectors including care homes, restaurants and pubs, hotels, schools, and local government, as well as logistics and utilities companies.

With its headquarters, plant and warehouse located



in Banbury, Oxfordshire, Cleenol delivers nationwide through its Partner network and exports to a number of countries globally, and with Cleenol Middle East in Dubai and other partners in West Africa and Australia, is looking to take the Cleenol brand even further afield.

We caught up with Paul Twiss, Head of Marketing, to find out more about this leading family run UK company, "Cleenol may be 75 years old this year, but we are not slowing down! We have new leadership, refreshed our vision, updated the look, feel and content of our portfolio ready for new markets and we are engaging in new partnerships across every aspect of our business. So there has been lots of change.

"Being family-owned means, we can bring significant flexibility to our commercial relationships, where many of the larger more corporate suppliers are burdened by red tape and complex hierarchical decision-making processes.

"For customers of the Cleenol branded

products, we deliver COSHH Awareness training, on site audits and surveys, formal product training and field sales support either alone or with our partner distributors' salespeople. For own label or contract customers, we also add technical, developmental and regulatory assistance and design support, either offering full service or task specific work."

The extensive range of products range from: handwash/hand sanitisers, air fresheners, carpet cleaners, floor cleaners, over cleaners, to toilet cleaners, across the British Nova floor care range, Evolution super-concentrated cleaning products, and own brand/private label cleaning products.

With a growing user/buyer focus on the sustainability of the products they use, Cleenol can point to its long-established track record in providing products that offer a suitable solution. The most recent embodiment is the in-house green standard: eden clean Mark. All products within the eden clean range meet the EU Ecolabel-ISO 14024 environmental standards of packaging and chemistry. These include eden clean multi-purpose degreaser, toilet cleaner, laundry cleaner and fabric conditioner, and drain maintainer. eden clean products have been developed using

CLEENOL

RSPO certified palm oil derivatives, no animal derived products, no parabens, formaldehyde, CMI/MIT, triclosan, phosphates, chlorine bleaches, optical brighteners, quaternary ammonium compounds and use 100% bio-based surfactant - made by using bio-based ethylene oxide which is manufactured from biomass ethanol.

Combining carefully formulated products, with appropriate packaging, using recycled material or recyclable componentry, the range's mostly colourless liquid and low fragrance usage (reducing VOCs) are designed to convey a transparency and straightforwardness of their approach.

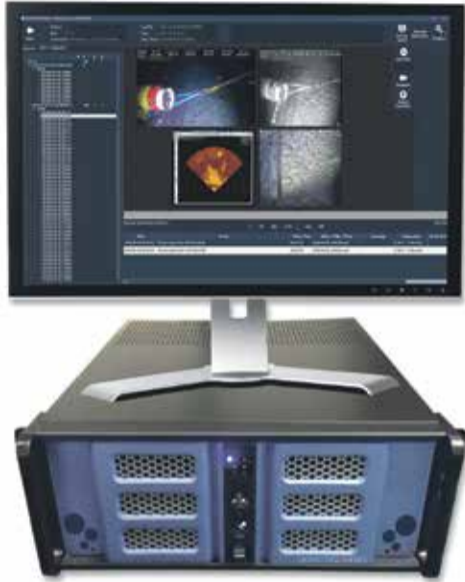
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Cutting-edge subsea technology

DIGITAL EDGE SUBSEA



Cumbria based Digital Edge Subsea is a world leader in offshore digital video recording (DVR) and inspection systems. The company supplies the oil and gas industry with its digital video recording system that includes diving, remote operated vehicle (ROV) and topside operations.

Digital Edge Subsea's products fit mainly into two categories, Subsea Robotics and Inspection Systems. The former includes both single and dual use modules as well as manipulators, which are high quality state of the art robotic solutions for the subsea market.

Digital Edge Subsea is also a market leader in producing subsea inspection systems, and with 10 years' experience in the industry has nurtured strong customer relationships allowing for honest customer feedback which has been incorporated into the development of the Version 5 EdgeDVR.

The EdgeDVR has become an essential part of any ROV and Diving system offshore as it is easy to use and reliable. The new V5 software includes an online training platform and certification, as well as a powerful portable laptop version which comes in addition to the original 4U rackmounted version.

To work alongside this, Digital Edge Subsea has also recently released the Edge DVR Archive application. Edge Archive handles the transfer of data from the internal DVR drives to client storage, either on a NAS, a Raid, or a phased delivery to multiple external hard drives. Archive can act as a simple data mirror of the correct internal drive data folders or can be used to create multiple simultaneous backups of client deliverables. This can be done in continuous backup or a phased approach that is conducted after each dive.

Digital Edge Subsea now produces a range of products, and supply systems to many of the major offshore operators worldwide. The company is a trusted brand with a reputation for excellent support. With around 750 systems in use offshore, the company has a proven record of reliability.

For further information regarding Digital Edge Subsea, please contact:
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Leaders in measurement of Nitrogen Oxides

ECO PHYSICS AG has a global presence with its main HQ based in Dürnten, Switzerland, and two other offices in Germany and the United States. Since 1989, ECO PHYSICS AG has been at the forefront of the environmental, health and process control industry. Its ECOlogical leadership combined with its passion for innovation ensures the company remains dedicated to sustaining the environment through all of its business activities.

The company offers sophisticated solutions for a range of applications including Medical, Semiconductor, Automotive, Aviation, Marine and Combustive Engines, Industrial, Environmental, Ambient Air and Research, and NO liquids.



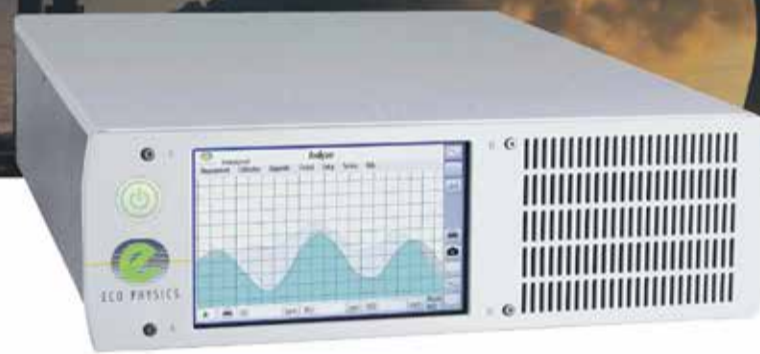
ECO PHYSICS AG offers innovative analytical solutions for measurement of nitrogen oxides and related gas components like ammonia, in the fields of environment, health and process control and by

using its interdisciplinary research and development team, it can also deliver customer oriented, tailor-made products and services. ECO PHYSICS AG is highly involved in the Industrial industry and places a large focus on medium NOx, NOx-related and multigas-concentrations up to 5,000 ppm where flexibility is a central requirement. Its range of Modular Gas Analyzers include parameters for NO, NO₂, NOx, NH₃, NOx-amines, O₂ and CO₂, and typically support applications for industrial emission monitoring and gas manufacturing control.

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AL, AL², EL S, EL, EL²



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The one- and two-channel chemiluminescence based NOX analyzers of the nCLD "Facelift" box-solution analyzers detect NO, NO₂ and NOX 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/NOX 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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INTRODUCING EDGEDVR

The EdgeDVR is currently used worldwide by most of the major ROV and Diving contractors. With our Version 5 software, we have 6 models. The EdgeDVR has become an essential part of any ROV and Diving system offshore, easy to use and reliable. The system is capable of recording simultaneous High Definition and Standard Definition video, together with auto creation of Dive, Video, Photo and Anomaly logs. Multi channel digital overlay is also available for all recorded channels, logos and realtime survey data can be displayed. With around 800 systems now offshore, we have a proven record of reliability.

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DIGITAL EDGE SUBSEA

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The future of digital video recording

Digital Edge Subsea, a world leader in offshore technology, supplies the renewables and oil and gas industries with its digital video recording system.

The company, established more than 10 years ago, has nurtured strong customer relationships that allow for honest customer feedback and this has been incorporated into the further development of the Version 5 Edge DVR. Based in a small market town in rural Cumbria, their customer reach stretches around the world. The Managing Director, John Benson, takes great pride and pleasure in visiting clients, not just to maintain relationships, but to ensure he hears their feedback first-hand.

Understanding customer perspective

It's during these visits and from regular contact with his customers that John and his team have been able to understand

DIGITAL EDGE SUBSEA

the customers' perspective, hear their ideas and look at implementing suggested improvements into their product.

The driver for the latest improvement in the Version 5 software came from specific conversations with clients and recognition from the technical support team that this enhancement would be beneficial to a large number of users.

In version 5.8, Project Merge was introduced. This allows multiple DVR projects, from either the same DVR or from separate DVRs to be combined into one project client deliverable. This is a free application to help with clients' workflow and offline editing.

Improvements

In addition, version 5.9, sees improvements to the Standard and Pro Workpacks, which now generate a template that can be pasted into xlsx files, edited for component trees in Standard, and components tasks, tags and notes in Pro, and then pasted back into the Workpack Editor to generate the Workpack file.

Access to v5.9 may be made by emailing the company and this version is available for all levels of software.

Hardware options

Digital Edge Subsea offers a number of hardware options:

- Traditional rack mounted
- A laptop version for mobility
- A triple monitor mobile workstation to allow for a more compact form factor for field deployment as an alternative to a 4u rack

As with all of their hardware, three levels of software are available:

- **EdgeLite** – an entry level unit, suitable for surveys and inspections, with no eventing requirement
- **EdgeDVR** – is able to record four channels of HD simultaneously. It continues to offer the creation of Workpacks and offline editing



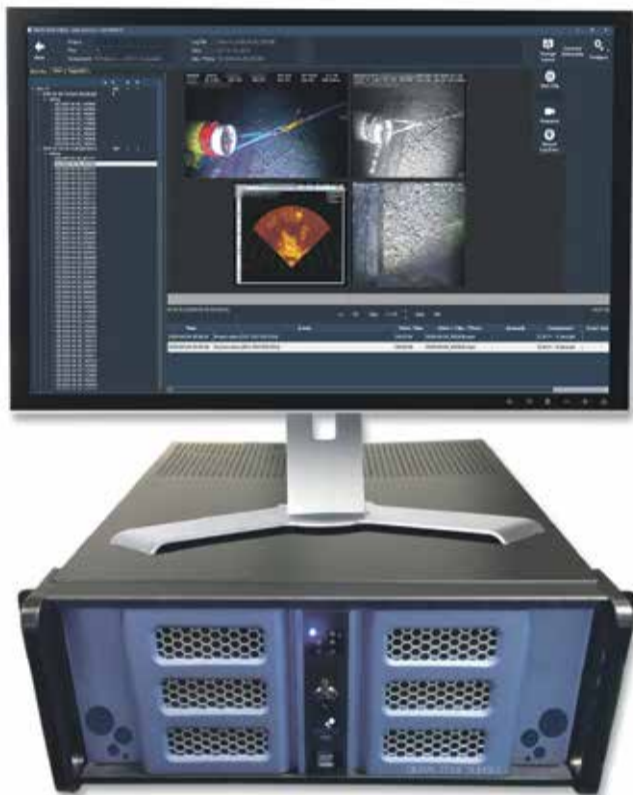
- **EdgePro** – has an extended database that allows tasks to be assigned to components under inspection. This allows customers to either create their own Workpacks, or they can be created in-house. It also provides an automatically generated report to capture inspection results.

Reliability

You can be assured of a reliable system, whichever unit you choose. Digital Edge also supplies excellent technical support where all systems can be remotely accessed.

All units have been designed to be simple to use by personnel of all levels of ability and training is offered for increased peace of mind. Digital Edge Subsea work with clients of any size to provide the system that suits them best.

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Process & Control

New appointment

British Rema is delighted to welcome Tony Goodwin (pictured) to the new position of Group Managing Director to lead the group through its next phase of development following its recent transfer to employee ownership. The organisation is now primed and ready for growth both in domestic and international markets.



Tony brings with him more than 30 years of industrial powder processing and handling business experience, with over fifteen of these in senior leadership roles.

"It is extremely exciting to have the opportunity to lead British Rema during this next phase of its development and growth and it's a great privilege to join such a fantastic team. British Rema has built a reputation on mechanical and processing expertise, knowhow and excellent customer service, values that must remain at the forefront of everything we do," he commented.

Three independent businesses constitute the British Rema group. British Rema Process Equipment Ltd, British Rema Processing Ltd and British Rema Rotary Engineering Ltd have all grown substantially over many years, establishing them as one of the UK's leading providers of powder processing equipment, contract processing and rotary engineering services to the mineral, chemical and recycling industries.

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The NEW and unique SMS R1 – ‘colour and cut’ sign and labelling system

In-House sign and label production – saving time and money

Increase control of your sign and labelling costs, and add a new level of flexibility and performance to all your product and process labelling.

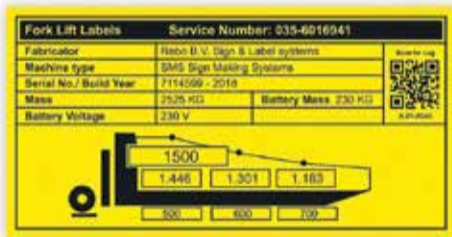


In-house saves time and money

Bringing sign and label production in-house is an increasing benefit to manufacturing, MRO and the process industry. All the original considerations that put companies off of this have been removed by technology. Just in time labelling keeps material stock to a minimum and allows enormous flexibility and customisation benefits to companies.

Ease of use and great value for money

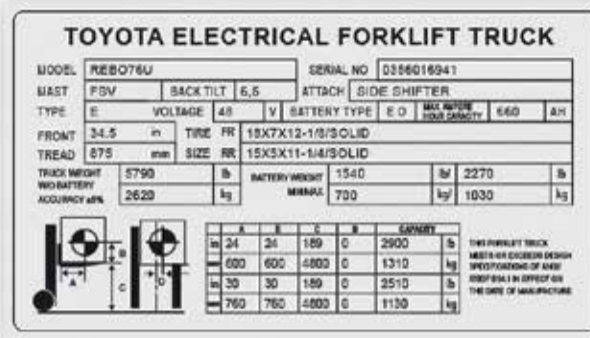
The new Rebo SMS R1 system is designed to be easy – not only for the specialist designers or graphically trained – anyone can design and create in minutes. Using the very latest touch screen technology it tells the user what to do, step by step. The ideal tool to achieve in-house product labelling in up to 14 colours and – remarkably – in any shape you can imagine. It is fast and easy to use – and runs with almost all the currently popular software being used to day. As a desktop product, the SMS R1 is compact and unobtrusive in any environment, accessible to everyone and fully networkable.



Label stock holding is a thing of the past – as the SMS R1 uses one width of material and effectively cuts the dimensions required – so no stocks of multiple label sizes is needed and there are none of the typical proofing delays and economies of scale issues you have with an outside label printing company.

One product does almost everything

The range of materials the SMS R1 can print and cut is extensive, so high performance labelling is easy – with high temperature, low temperature, high durability and specialist materials always available for the most demanding environments. We offer, among others, glow in the dark, reflective, hologram security, ten and five year outdoor vinyl, metallised polyesters, unique long life polyesters, Hi-Viz and the



range increases as customers create new applications.

Recyclable and green

The material range on offer also includes fully recyclable material that contains no environmentally damaging solvents, plasticisers and is fully REACH compliant.

Benefits all industries

Currently the SMS R1 is actively being used to produce: LO/TO labelling and tags, maintenance labelling, Health and Safety, cable and wire marking, pipe identification, tank and valve identification, part of product labelling, Shutdown/Turnaround labelling, prototype labelling, plant and equipment labelling.

We have continued interest from the petrochemical industry, manufacturing, construction and Installation. HVAC, MRO, logistics, material handling and the alternative energy markets.

A new level of productivity

The SMS R1 can easily deliver small labels in long runs of over ten meters, mixed label sizes and styles and also can cut in batches – all designed to make production easy and practical. From the smallest component labels up to large equipment labels – the SMS R1 is purpose built.

Create and print what you want, when you want it

Where some components or instruments need to be designed for unique applications – lower volumes



and bespoke content are the greatest challenges – these disappear with the SMS R1, which can produce ‘one-offs’ and smaller batches of labels on-demand.

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