

INDUSTRY UPDATE

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Hertfordshire auction house benefits from Megaman's LED technology

Megaman's Nero LED batters have been used to improve the lighting quality and lower the energy usage at Tring Market Auctions, an independent auction house located on the edge of the Chiltern Hills in Hertfordshire.

Tring Market Auctions dates back to 1832 and has operated independently since 1992. It is located 30 miles from both London and Oxford and hosts regular fine art and antique auctions. Its current buildings consist of a number of former cattle auction buildings that have been repurposed as characterful sales rooms. The existing lighting was standard T8 fluorescent tubes but the owners were looking for a more energy efficient solution that would also improve the customer experience.

Megaman's Nero LED fittings are a cost-effective alternative to conventional T5 and T8 fluorescents. The 48W Nero batters were chosen based on a recommendation and supplied by a local wholesaler. The 4000K versions were installed in the four sales rooms as well as the connecting hallway to deliver a clean, bright, white light. Due to the higher quality of light produced by the new LEDs, the total number of fittings could be reduced without affecting the overall light levels.

Jo Burch, Saleroom Administrator at Tring Market Auctions, explains, "The new lighting has made a significant difference and many of the regular customers have commented on the improvement. We didn't realise how poor the light really was until the fittings were



replaced. We have also been able to reduce our energy usage due to the much lower power requirements of the LEDs."

The tough polycarbonate body of the Nero is also IP66 rated for full protection against water and dust. This was an additional consideration for Tring Market Auctions as one of the areas is not fully insulated and as a result suffers from occasional moisture ingress. Furthermore, the Nero batters also ensured a simple installation with the option for surface mounted or suspended fixing as standard – both of which were required to suit the different areas of the building.

Denise Patrick, Business Development Manager for Greater London and East at Megaman comments, "This project highlights the versatility of the Nero range. While commonly used in outdoor settings, it is equally at home in a character heritage building converted into a modern auction house. Carefully chosen for its lightweight design, it is an ideal replacement for a conventional indoor T8 batten."

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Huge range of roll cradles now held in UK



HenryAR, the European trading arm of US company Henry Molded Products, now offers large stocks of Stakker roll cradles in a range of more than 40 styles within the UK for immediate distribution throughout Europe.

The cradles provide producers, converters and distributors of rolls of fabrics, papers and films with a safe & economical system for horizontal stacking on pallets, saving on production, warehouse and distribution costs. Custom moulded packaging in paper fibre is increasingly replacing less environmentally acceptable materials. Henry is able to mould large format, heavy duty, deeper sections and its products are recyclable. It has its own design studio, mould making shop, slurry development and production process under one roof.

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Having presentable, well-structured data is a priority and the user interface has been developed to maximise the display of data, enabling users to efficiently navigate and analyse results. PatWorld will also feature a machine translation tool.

Users can record a history of their searching and store these in separate project folders that can be accessed over multiple accounts for collaborative working.

Within project folders, users can rate and comment on results for future reference. A report generator tool will allow users to quickly generate customisable professional reports ensuring that users can present their data as efficiently as possible.

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Wittmann Battenfeld UK works for Linear



Linear Plastics, leading toolmaker and contract injection moulder, concludes the end of a bumper 2019 with an order for two new production cells, supplied once more by Wittmann Battenfeld UK.

Linear's contract injection moulding business has gone from strength to strength through 2019. Thanks to continuing market demand Linear has now expanded its South Wales workforce by over ten percent over the past two months.

The new injection moulding cells will now help the Linear business handle the recent increase in the company order book. Both new work cells are identical in formation. Both are built around the Wittmann Battenfeld 120 tonne SmartPower injection moulding machine. Wittmann Primus robots service both machines, together with Wittmann mould temperature controllers and recycling technology.

The two new SmartPower machines will now join Linear's expanding fleet of injection moulding machines, including Wittmann Battenfeld MacroPower 1000 tonne injection moulding machine (IMM) and also a SmartPower 350 tonne. Linear's order book this year has celebrated successes in the electronics, automotive, construction and office furniture sectors where the company is now commanding a 'go to' reputation for quality manufacture of large parts.

This expansion has been achieved by the 110 strong workforce under the leadership of Gareth Bassett, owner and MD, and Andrew Harrison, General Manager.

www.wittmann-group.com

DS Smith saves 65% on lighting energy

LED Industrial Lighting Co. Ltd, a leading supplier of energy efficient LED solutions to the industrial and commercial sector, are pleased to receive recognition at the recent Energy Efficiency Awards 2019 for their LED project at DS Smith Clay Cross. DS Smith is a leading provider of corrugated packaging in Europe and a specialist in plastic packaging worldwide. DS Smith has a 75+ year legacy of innovation and process efficiency. With a focus on eco-friendly design and recycling, helping its customers to reduce waste, cost and complexity in their supply chain is a top priority.

The Clay Cross lighting project received the "Highly Commended" award for energy efficiency.

Installation Snapshot

- ▼ DS Smith – global paper & packaging company
- ▼ European-wide upgrade at 100+ facilities
- ▼ Hundreds of fewer fixtures required
- ▼ On average 65% energy consumption and cost savings
- ▼ On average a 3-year payback
- ▼ Dialight fixtures in 90% of European facilities by mid-2019

Since the early days of LED technology, LED Industrial Lighting Co. Ltd have been providing cost-effective, energy efficient LED solutions for clients throughout the UK. Established in 2008, our reputation for providing impartial and professional advice has guided customers

through every stage of the lighting upgrade process, including survey, design, quotation and installation. With particular expertise in the heavy industrial and commercial sector, we have delivered energy efficient lighting solutions to companies in the paper industry, warehousing, food & beverage, manufacturing, airports & ports and also the hazardous area environments.

"I would not hesitate to recommend LED Industrial Lighting Co. to those looking for a long-term sustainable solution to their industrial lighting requirements." Martin Mead, Head of Energy Efficiency, DS Smith Plc.

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'Behind the Mirror' hygiene solution

Dudley Industries has launched a new modular 'Behind the Mirror' hand hygiene solution, strengthening their global washroom offering.



With space often at a premium in washrooms careful consideration must be given to every detail. Modulo is a convenient solution that provides a flexible choice of hand washing and drying options housed in a cabinet concealed behind a mirror.

It can be specified in three simple steps:

1. Choose the cabinet size;
2. Select the dispensers;
3. Choose the door type.

Unlike traditional cabinets the Modulo system provides a range of dispenser locations so that each one can be positioned exactly where needed. Cabinets are available in widths of 600mm and 1200mm and customers can choose their dispenser combination from: Soap Dispenser, Paper Towel Dispenser, AutoCut Paper Towel Dispenser and Hand Dryer.

Cabinet doors are available as a traditional mirror finish and also a tinted glass which stylishly reveals the dispensers through the glass.

Ease of servicing has been considered throughout the design process. The doors provide assisted opening and the internal shelf stores spare consumables.

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Essemtec AG supply smart and highly flexible SMT Solutions, including the Fox and Puma Pick & Place systems which can offer multiple heads for P&P, as well as dispensing on a single platform.

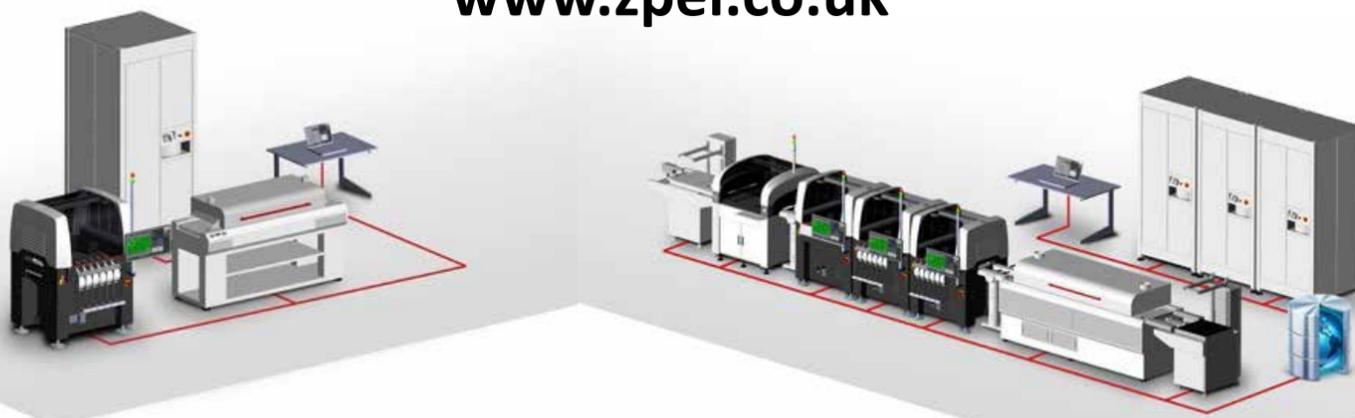
The Fox and Puma can both be used as stand-alone systems or be configured as inline solutions, and there are also the Spider and Tarantula systems which have a range of nozzle technologies purely for dispensing.

All the systems use mineral cast beds for vibration free production as well as benefiting from no warping caused by thermal drift. They use linear motors throughout in order to give the highest accuracy with zero maintenance, and have one of the most comprehensive software packages available.

As well as these, Essemtec AG has the Cubus and Cubus Large Component Towers, which offer the flexible storage of SMD reels in a range of sizes, trays, and boxes. The towers reduce logistic problems by 95% and offer full interface to most production systems and all major ERP and material management.

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FLI Structures sees productivity soar after machinery investment



The addition of a Costa MD 4 plate grinding machine to FLI Structures has increased the productivity by 1.5 persons per week and improved safety levels at the Gloucestershire-based company.

Andy James, works manager at FLI Structures, recognised a shift in customer requirements and the need to include a plate grinding machine to their offering which covers the telecoms, highways, rail and energy industries. As an existing customer of Ficep – FLI Structures were working with a plate processor and a number of other machines- Andy's first call was to Ficep sales manager Chris Berriman.

Andy commented, "We looked at other machines and we've spoken to Ficep before about plate grinding machines but at that time it didn't seem like the right choice for us. Now, plate grinding and welding is more relevant, we started looking for another machine; we got talking to Ficep about another machine and happened to mention the plate grinding to them. They told us they have an agreement with Costa. I researched into this and found this to be a good choice for us. This machine had better options to other machines that we looked at – for example edge rounding."

After being impressed with the extras offered by the Costa, Andy visited a UK reference site to see the machine in action. He took some samples to check the machine quality and capability, and also had an opportunity to ask detailed questions about the machine.

Chris Berriman, adds: "Francis and Lewis have been a Ficep customer since 2000 and over the years have purchased 15 different machines for different applications. Andy is one of our many customers that are reaping the rewards from the Costa machine".

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How to solve valve mast issues

In order to overcome Maximum Acceptable Stem Torque (MAST) issues, Imtex Controls says many of its customers are adopting the Camtorc actuator design. Here the company explains why...

The demands for safety, efficiency and environmental responsibility from the oil, gas and energy industries have impacted the selection of pneumatic valve actuators for quarter turn failsafe valves (ball, butterfly and plug) and dampers.

Actuator sizing depends on the various valve torque values, minimum supply pressure and actuator-valve safety margins/factors considered to cover the service life of a valve.

When sizing pneumatic actuators for fail-safe valves, torque safety factors can vary depending on project specifications. Valve torques can also vary from break to open and running end to close positions.

End users normally determine the valve safety factor during the design stage so valve manufacturers do not need to add extra contingencies. Generally, these safety margins are determined with the goal that the valve should operate smoothly

throughout its service life, irrespective of the process condition.

Increasingly, the safety factor applied when coupled with the specified minimum sizing and normal supply pressure range for actuation selection, can result in selected actuator torques exceeding the maximum acceptable stem torque (MAST) specified by the valve manufacturer.

For example, in the oil and gas industry, three different application categories for safety margin are commonly designed for the on/off actuator valves:

1. General Duty like Process On/Off valves – the valve will have an actuator with a torque output of at least 1.3 times the operational torque requirement of the valve (+ 130% or x 1.3 safety)
2. Process Duty like Shut Down and Blow Down valves will have an actuator with a torque output of at least 1.5 times the operational torque requirement of the valve (+150% or x 1.5 times)
3. Safety Duty like Emergency Shut Down valves – the valve will have an actuator with a torque output of at least 2 times the operational torque requirement of the valve (200% or x 2 safety). Although, some operators go up to +250% or x 2.5 safety or higher.

Many valve producers are able to offer higher

tensile strength stem materials for large ball and plug valves, which are used in many shut down applications in order to raise the MAST values. However, this is not true for smaller ball valves (up to 50mm bore) when it can be challenging to source the stem material to take care of 200% or 250% safety factor requirements because of the limitations in the physical size or valve design.



In many applications where space limitation and structural load are a concern i.e. offshore drilling platforms, FPSOs etc., many customers will use triple offset and/or high performance butterfly valves instead of ball and plug valves. However, in larger bore sizes, the smaller dimensions of these valves when compared with ball and plug valves results in stem sizes that are often smaller and weaker.

The most commonly used actuators for automating on/off 90° valves utilise either the well proven rack and pinion or scotch yoke mechanisms.

The rack and pinion type gives constant torque output throughout the stroke and is used for smaller sized valves.

The scotch yoke type is effective for larger valves where a higher torque requirement is needed at the



beginning of the stroke.

In the energy related industries, the scotch-yoke system is often preferred. However, due to the inherent design and torque curve characteristics of the design, it is not always the best choice when using spring return versions for fail safe applications where there are valve MAST issues to consider.

For the spring direction of any pneumatic actuator, the spring size has to be large enough to ensure the end of the spring torque closes the valve with the specified safety margin built in.

With a conventional scotch-yoke actuator, the air side is not independent of the spring side. This means that during the air stroke, the actuator air cylinder not only has to be a large enough diameter to produce sufficient torque with the specified safety margin to break the valve from its seat, but it also has to overcome the spring force which increases as it moves from 0° (spring extended) position to 90° (spring compressed) position.

The result is a dimensionally large scotch-yoke actuator, producing high break torques resulting in the maximum torque output from the actuator reaching or even exceeding the valve MAST value.

To overcome this problem when Valve MAST issues occur, many customers are adopting the Camtorc actuator design which utilises a cam mechanism, working in conjunction with a self-contained spring module. The Camtorc actuator

design offers two primary benefits:

1. The mathematically derived cam profile maintains a constant Moment Arm throughout the actuator stroke. This ensures a constant torque output is achieved for the full 90° travel of the actuator.
2. The self-contained spring module operates independently from the cam mechanism during the air stroke. This is achieved using a secondary air piston sized solely to compress the spring. Thus, unlike many other spring return actuators where the torque is significantly reduced compared to its double acting version, the cam actuator has the same constant torque output for both double acting and spring return versions.



An added benefit is that the Camtorc actuator is physically smaller than the comparable spring return scotch yoke actuator, allowing for space savings to be achieved across the plant and in turn less infrastructure and cost.

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Sustainable solutions for demanding processes

Industry Update is proud to announce that Suurmond UK has been selected as our Processing Solutions Company of the Month. The company was incorporated in 2004 as a partnership between the owner of Suurmond Group (established in the Netherlands since 1975) and Laurence Fletcher.



This group consists of four locations, including the headquarters in the Netherlands, businesses in Belgium and France, and the UK sales office based in Evesham. "We started out as a distributor for two main pump companies: Maag Pump Systems and Gather Industries. Initially, our business was just pumps and spares, but in recent years we have evolved into something more, and we now design and build custom dosing units and skids for a wide range of industries," Laurence explained.

Boasting an enviable client base, Suurmond supplies its pumps and equipment to numerous multinational companies, including BASF, Akzo Nobel, Beardow Adams, Dow Silicones, and Pirelli to name a few.

Offering the highest standards of precision and reliability, Suurmond is dedicated to finding a solution that will work, no matter what the

application. "We tend to be a problem solver. Within our business, we have engineers with decades of experience, especially with tricky processes, so it doesn't matter to us whether it's a polymer, hotmelt adhesive, chemical or pharmaceutical application, we can help," Laurence elaborated.

Recently, Maag Pump Systems introduced a new range of chemical pumps, which are an excellent choice for lower viscosity applications. The new FX-series pumps offer all the benefits of corrosion resistance that the current CINOX and THERMINOX pumps do but now the 3 piece body allows for easier and more efficient cleaning and maintenance.

As well as this, Gather Industries boasts an impressive range of leak-free quick disconnect couplings for nearly all liquid and gaseous media. Safe and robust, these quick disconnect couplings



are available with double or single shut-off function for unrestricted medium passage.

This excellent array of resources is underpinned by the large wealth of experience of Suurmond's staff, many of whom have been with the company for years. This impressive knowledge base offers Suurmond's customers numerous benefits, as the company looks at processes in ways that other companies don't, ensuring it offers the best solution for customers' individual needs.

This year, Suurmond UK received great responses after attending ChemUK in May. "We had quite a long hiatus from exhibiting because we couldn't find a show that was worth spending the money on. However last year we decided to exhibit at ChemUK in Harrogate, and it was great! We had lots of interesting people visit our booth and it created quite a buzz in the chemical industry, so we will be exhibiting again in 2020," Laurence said.

Suurmond UK is undoubtedly in a prime position to further its growth in the next few years, and continue



to offer its well-informed solutions to its broad customer base.

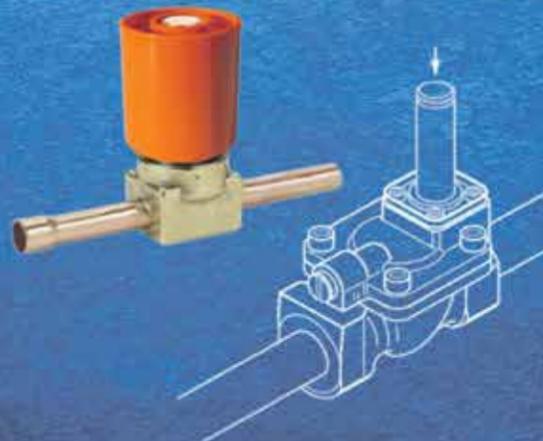
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Ball screws with interchangeable nut-shaft combinations



NSK has released a new series of ball screws in which the nut and shaft can be freely combined. This design makes it easier for both dealers and end users to stock or purchase high quality ball screws in small batches.

The new ball screw does not require using an individually matched nut-shaft combination. Instead, the nut and shaft can be freely interchanged, following the principle of random matching.

Available in accuracy class C7, the ball screws come in shaft diameters from 15 to 32 mm, with pitches from 5 to 20 mm. Thanks to their inherent design, the units are shipped with very little axial play as standard. If necessary, a desired preload can be generated by changing the size of the balls at a NSK dealer or directly at NSK.

The new series is ideal for applications that include pick-and-place systems, as well as automated transfer units for assembly, handling and internal transport. Many other uses are also possible.

For users, the free interchange of nut and shaft has the advantage that the required ball screw can simply be taken or ordered from stock, and then cut to length either in-house or by an authorised NSK dealer.

www.nskeurope.com

Bunting Joins Polymer Machinery Manufacturers and Distributors Association



In recognition of their long-time association with the plastics sector, the European division of the global Bunting Group has joined the Polymer Machinery Manufacturers and Distributors Association (PMMMA).

Bunting is one of the world's leading designers and manufacturers of magnetic separators and metal detectors for the recycling and plastics industries. The Bunting European manufacturing facilities for their wide range of metal separation and detection equipment are in Redditch, just outside Birmingham, and Berkhamsted, both in the United Kingdom.

The PMMDA provides important information, representation and a mutual support for companies in the plastics industry. Established in 1966, the association's activities include exchanging information through networking and social events; provision of market statistics and industry data; communication of regular business and industry updates; representation and feedback on the development of EU and ISO Standards.

T 01442 875081
www.buntingeurope.com

Wire rope lubrication

Viper WRL, an Australian owned company, manufactures and supplies wire rope lubrication equipment to the marine, petrochemical, mining and manufacturing industries.

The Viper WRL system is said to increase the life of wire rope assets by up to 300% compared to traditional lubrication methods. When used in place of manual lubrication, it can reduce relubrication time of ropes from several days to several hours, while providing a safer work environment.

As the Viper delivers lubricant into the wire rope there is also an environmental benefit with less lubricant used and less waste.

In recent years, the company has expanded operations with an additional



workshop facility, increased its global distribution network to 70+ countries, increased personnel from 15 full time employees to 24, and increased sales by 32%.

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NAADUK continues to bring valuable change in the industry



At Industry Update, we are dedicated to showcasing those who are driving real change in their respective industries. This is why we are proud to announce that NAADUK (National Association of Air Duct Specialists UK) has been chosen to receive our Association of the Year award, for its continued dedication to providing a trusted register of fully trained ductwork maintenance specialists.

"We are honoured to win this award; starting off as a small group to a growing association we thank Industry Update for putting us forward for the award.



It's thanks to our members and their input that we are in great respect of accepting and we hope to continue our great work," said Olivia Deen.

NAADUK was established in 2014 by a selection of industry leaders who felt it was necessary to have a group of experts to lead and teach both members and the public on the industry's standards and laws, which are not easily understood. With its head office in Devon, NAADUK holds meetings across the country and has members from countries as far away as Qatar and Australia.

By offering a full list of qualified and trained ductwork cleaners, NAADUK provides companies and the public with the confidence that they are contacting competent personnel. What's more, NAADUK also promotes laws, standards and the importance of maintaining ventilation systems.

As a relatively young association, NAADUK has had a tremendous past 12 months. "It's been a really busy year, the membership has continued to grow as we had hoped and the profile of NAADUK has really increased. We've had our regular member meetings while having factory tours and seminars, and things are continuing to grow and develop into the New Year," said Olivia.

Recently, NAADUK completed testing on the Kingspan Kool Duct. This has led to NAADUK confirming that this ductwork can be cleaned and that it would recommend the use of this ductwork, due to its lightweight feature and its durability. Furthermore, the NAADUK approved training centre, AEME, was in this year's Parliamentary Review. Indeed, inclusion in such a highly recognised publication is proof of NAADUK's growing presence and significance within the industry.

Delivering a wealth of benefits to the industry,

NAADUK offers free advice and guidance, as well as providing informative seminars to councils and similar establishments, including Testing Standards. NAADUK members are invited to all meetings, regardless of their size, with access to free technical advice whenever needed. Members are also put on to the National Database to ensure they are easily found when potential clients are looking for a competent trained technician.

With a mission to help people work together to provoke industry-wide improvements, NAADUK is consistently coming up with ideas and new ways of thinking to add value to the ductwork maintenance industry. The association features members who have proved their competence in training, as well as associate members who may be manufacturers of the products used, who wish to stay abreast of any updates and changes within the industry.

With a successful first few years of operation, NAADUK is thoroughly excited for the future. The association is currently working on NAAD 21, which will be a specification on the cleaning of supply and extract ventilation systems,



as well as grease kitchen extract cleaning. It will be the most advanced specification on Ventilation Hygiene on the market, and will be freely available to all in line with the Dame Hackett Review. This is currently being finalised and will be realised in 2020 to much anticipation from the group and entire industry.

Following on from this, NAADUK will be promoting the

importance and requirement of Fire Damper Testing, while continuing to keep the industry informed of the latest updates. The association will also be holding a presentation slot at the Healthcare Estates 2020 to inform the NHS trusts of the importance of Ventilation Hygiene.

Without a doubt, NAADUK has maintained the high quality services on which it was established, with the founding industry experts remaining on board and membership continuing to grow on a monthly basis. NAADUK is always welcoming new members, with a great appreciation of the input that is given in its monthly meetings. All members are invited to attend these, and there is no doubt that NAADUK will be starting 2020 the same way as last year: working together to improve our industry.

If you would like to find out more information on NAADUK's full range of services and benefits, head to the website. Alternatively, get in touch using the contact details below.

T 01404 891539
www.naaduk.co.uk



Union Industries delivers for global packaging leader Greif Flexibles

A global leader in industrial packaging products and services has benefited from the installation of three of Union Industries' bespoke high-speed roller doors.

Greif Flexibles' manufacturing site in Thirsk, North Yorkshire, required a bespoke solution to reduce energy consumption by preventing heat loss and to provide segregation of the warehouse and production areas to ensure employee safety. Additionally, their internal openings within the facility were subjected to high wind forces from the external doorway which required a robust high-speed door, specially designed for wind resistance.



Union Industries, the UK's market-leading manufacturer of bespoke warehousing and industrial solutions, installed two of its Bulldoors and a Ramdoor at the facility, which is based at Dalton Airfield.

The high-speed doors prevent the severe drop of ambient temperature in the building, especially in the winter months, which eliminates any potential impact on the production environment.

Union Industries' Bulldoor is often regarded as the 'reliable workhorse' of rapid roll doors and has been known to perform more than 1.4 million cycles per year, making it a popular choice across several industries. The Bulldoors features specialist 'Crash-Out' and 'Auto-Reset' damage protection facilities, and offers control outputs for options such as airlocks, traffic control systems and remote monitoring, in addition to temperature control for ambient and chilled environments.

The Ramdoor, an equally robust solution, is constructed using heavy duty materials and components that makes it suitable for most applications and is specially designed to achieve a Class 5 wind resistance capacity. It also features Union Industries' 'Crash-Out' facility, as well as a high quality Windbar system, counterweight assisted

opening, and a heavy duty 'Ramhide' door blade,

Greif Flexibles produces a wide range of speciality packaging products, including steel, plastic and fibre drums, intermediate bulk containers, reconditioned containers, flexible products, containerboard, uncoated recycled paperboard and coated recycled paperboard, tubes and cores. It also manufactures packaging accessories and provides filling, packaging and other services for multiple industries.

Nigel Booth, Business Operations Director, Greif Flexibles, said, "Following extensive research of the industrial door market, Union Industries stood out as the best supplier of the product, which would meet our requirements. Union's doors are very effective in supporting our drive for high levels of productivity and operational efficiencies."

Robert Howe, Technical Sales Engineer at Union Industries, said, "Our high-speed roller doors are growing in popularity and are renowned for their 'workhorse' nature within many production facilities, as they have been specifically engineered and designed for long usage and high intensity operations. We are delighted to have provided the team at Greif Flexibles with a



durable and robust solution, which will also support its environmental policy.

"The installation of the Bulldoors and Ramdoor was conducted in a timely and efficient manner, with minimal disruption to Greif Flexibles' operations, and we look forward to working with the global leader again in the future."

www.unionindustries.co.uk

The total solution for Springpack Direct

There have been many projects completed by Total Interiors this year, one of the most recent and detail orientated was for Springpack Direct. Working together on the unique requirements of Springpack, Total Interiors were able to supply, deliver and install a total warehouse solution for them.

Springpack Direct offer a great range of packaging products, they needed a variety of pallet storage, with different dimensions to ensure their packaging solutions would fit. Total Interiors worked closely with Jerry, the Managing Director, to ensure the project was executed smoothly.

Total Interiors Direct have over 20 years' experience within the Racking and Warehouse Industry and a dedicated team working behind the scenes means

that each and every project is handled in house. As a family run business, Total Interiors pride themselves on their customer service and attention to detail.

When speaking with Jerry, Managing Director of Springpack Direct: "Total Interiors were the most competitive on price, but also were able to offer us the best solution for our warehouse. We always try to work with local companies where possible, and the whole process with Total Interiors has been great".

Julian at Total Interiors commented on the project: "Working with Springpack Direct was a great experience, the project itself was a complex and challenging build and design. Each and every pallet bay had different size specifications and the attention to detail required was enormous. We

thoroughly enjoyed working with a local and family run business, and we could tell that Springpack had put all their trust and faith in us to design and deliver the best storage solution for their business".

Since the installation Springpack Direct have been working hard to move into their new warehouse, and Total Interiors have been in close contact with them to ensure the changeover has been smooth sailing. Everyone involved with the project is very happy with the outcome and what is more, a strong relationship has been created by working closely together.

For your next warehouse or office project contact the Total Interiors Direct team.

www.totalinteriorsdirect.co.uk



- Racking Solutions
- Racking Inspections
- Mezzanine Flooring
- Office Installations

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01905 757 506

www.totalinteriorsdirect.co.uk

IFL doubles its warehouse storage facilities in the Midlands

A new 2,000m² secure warehouse storage facility has opened in the Midlands as part of International Forwarding Ltd's growth plans, just ahead of the freight forwarder's 30th anniversary in July.

The unit opened in May 2019 and almost doubles IFL's current warehousing space. The storage facility is part of a larger two-acre site, which the company took over in April. The site includes 24-hour security and yard space for vehicle parking and trailer storage. It is located next to IFL's existing offices and hub in Coleshill, Birmingham, close to the M1, M5, M6 and M42, and 10 minutes from Birmingham International Airport.

Extra warehouse storage at Birmingham hub

The timing of this major expansion in the company's facilities is particularly opportune as several existing customers require



additional warehousing to protect their supply chain against Brexit-related issues. It also gives the sales team the tools to acquire additional forwarding and pallet distribution contracts from new UK and overseas-based customers. The existing management team will control the physical freight handling and

the back-office functions for the new site.

The expansion comes just ahead of the company's 30th anniversary in July.

30 years of IFL in the Midlands

IFL is a Midlands-based independent freight forwarder specialising in European groupage services, sea and air freight, UK haulage/pallet distribution, and warehousing. The company started trading in 1989 to fill a niche in the West Midlands to provide a personalised bespoke freight forwarding service to local exporters and importers.

For fast, flexible quotes and competitive storage rates, or to discuss your warehousing needs, call us on 01675 434690 or email enquiries@internationalforwarding.co.uk.

Car seal range



Spectrum Industrial has added car seals to its safety product portfolio.

Car seals are a simple means of locking a device in an open or closed position, preventing unauthorised operation and providing long-term isolation. Commonly used on valves, they provide security as the sealed apparatus can only be operated by cutting the car seal's galvanised steel cable. This provides evidence of tampering or of activity by an authorised operative. Due to this car seals are a single use item.

Spectrum's car seals have a coloured anodised aluminium body with strong galvanised steel cable. They come in a choice of colours. Tag colours are usually assigned to match the state of the device being locked out (generally red for locked; green locked open). Other colours can be assigned to other uses.

T 01302 788700

onlinedangerousgoodstraining.com
CDMT – a corporate part of FTA



Multimodal Dangerous Goods Awareness

ONLINE TRAINING



Some of the world's worst transport accidents have been caused by goods not properly packed becoming dangerous in transit. Many goods, including everyday items are dangerous if not packed or stowed according to international standards. EU and international legislation states that all staff directly or indirectly involved in the transport of goods classed as dangerous must receive training appropriate to their job.

Introduction to Dangerous Goods by Air, Road, and Sea; Overview for Management and Staff training course will introduce you to the regulations governing the safe transport of dangerous goods by air, road and sea, and is designed for anyone whether they are management or staff who should be aware of this subject and have an understanding of their responsibilities.

The course gives an overview of the legislation and responsibilities applying to the handling and carriage of

Dangerous Goods by Air, Road, and Sea, including key topics such as:

- Your responsibilities in law for dangerous goods.
- The hidden dangers in everyday items.
- Why goods are classified, packed and labelled.
- Plus much more!

The programme of this training course was updated recently and now includes a revised script and new footage filmed in working warehouses and container ports, plus a general overview of the dangerous goods regulations for air, road and sea.

It targets staff at all levels – director, manager, packer, production director, personnel manager, delivery driver, laboratory technician, supervisor, and warehouse staff. In fact, anyone who in any way is involved in dangerous goods.

Centurion improves its offering of Ratchet Straps

Centurion Europe Ltd, one of the UK's leading independent distributors of DIY and Trade products including hardware, ironmongery, gardening, plumbing and electrical, has launched an improved own branded range of Ratchet Straps.



Paul Kantecki, Managing Director of Centurion comments, "As part of our range reviews we invest in research and development to ensure we offer the best products for our customers and the end user. We were seeing a lot of low quality ratchet straps out in the market and as they play a vital role not only in the haulage industry to ensure safe securing of loads but also leisure, farming, construction, storage, travel and transport, means they have to be able to stand up to the job at the hand."

Securing any load safely is also the law, and according to the highways agency in 2015 there were over 4k incidents involving ratchet straps. Not using Ratchet Straps or using old and unsuitable straps can cause loads to fall, which not only causes long traffic delays but also can cause injury and death.

Paul continued, "We worked hard to work with a manufacturer to provide us with a quality range of Ratchet Straps that would stand up to the rigorous strapping and securing they are designed for. Our range is tested up to load and features the test label which is a legal requirement clearly detailing the straps' capabilities. We are proud to now have this range of Ratchet Straps added into the Centurion brand."

Centurion offers four grades of Ratchet Straps, Light Duty, Medium Duty, Heavy Duty and Commercial, all made from strong quality polyester webbing and provide widths of 25mm – 50mm, strength ratings from 750kg to 5000kg and lengths from 4.5m to 10m, so whether it be a large object that needs securing to a pallet or keeping your possessions attached to your car, Centurion's range offers a Ratchet Strap for many applications.

As with every product launch Centurion has also introduced POS and merchandising options for their retail customers, as they understand merchandising the product right in store is important to grow sales.

Centurion also offers a selection of products to complement this range including luggage straps and tarpaulins.

Contact
T 01302 788700
sales@centurioneurope.co.uk
www.centurioneurope.co.uk

To see all FTA's online Dangerous Goods training, please visit
www.onlinedangerousgoodstraining.com

For any queries, please contact us on 01293 539119 or sales@onlinedangerousgoodstraining.com

Heating, Ventilation & Air Conditioning Update

The 'Servitec Mini' – Vacuum spray tube de-gassing for domestic heating systems

The influence of water quality always has an immense influence on the performance of heating systems and we all know that only systems that are operated optimally work efficiently and economically.

The Reflex 'Servitec Mini' makes a significant contribution to this, even for systems with small water content, with its sophisticated technology of vacuum spray tube degassing.

Reflex 'Servitec Mini' is the economic energy efficiency product with additional value for all system operators and the environment. Economic in its operation with an efficiency of up to 90% to reduce CO₂ emissions. The Reflex Mini control unit is

integrated in a robust plastic housing in which both the power and communication electronics and the control panel with dirt-resistant membrane-covered keyboard is housed.

The Reflex Mini control unit is a fully automatic microprocessor control unit with time function, differentiating error and parameter memory, LED display of the operating modes and general error messaging, visualisation of the control states for system pressure and all relevant operating and fault messages.

The control unit completely piped and wired ready for connection according to regulations, mains power cable and mains plug, system connections by means of integrated shut-off valves.

Here's how the 'Servitec Mini' works.

- Installed in the return of the heating system, the 'Servitec Mini' cycles at a pre-determined time convenient with the occupant (set via the app)
- Gas rich system water is sprayed through a nozzle into the vacuum tube which forcibly draws any air out of the water. The de-gassed water is then reintroduced to the heating system and the cycle begins again until the pre-set time elapses.

For further information on this product please contact sales@reflexuk.co.uk or 0161 266 1043. Alternatively please visit www.servitec-mini.com



Space-saving split air-con saves energy for server rooms

STULZ's new EC Tower, is designed for rapid deployment and requires a third of the footprint of some conventional precision air-conditioning units.

Temperature management for IT infrastructure is critical, even for smaller server and technical rooms, and precision air-conditioning is vital. To meet this demand, a new split air-conditioning system – the EC Tower – has been launched by STULZ UK, offering high levels of reliability and precision control, in a fraction of the footprint of conventional air-conditioning systems.



The EC Tower series combines the proven reliability of STULZ's precision air-conditioning technology with the advantages of modern inverter outdoor condensing unit. A split climate solution, the EC Tower range can be rapidly deployed for heat loads of 5kW to 24kW. A key advantage of the outdoor condensing unit is the ability to support dynamic capacity adjustment of the rated cooling capacity – which delivers significant energy savings.

The EC Tower series is designed for continuous, 24/7 cooling of technical rooms. While conventional comfort air-conditioning units can use up to 40% of their cooling capacity in dehumidification, the EC Tower generates between 90% and 100% of sensible cooling capacity which reduces dehumidification and lost performance. The high Sensible Heat Ratio (SHR) value eliminates problems associated with removing moisture via the evaporator which can be an issue in technical environments, causing static build up within the technical equipment.

T 01372 749666
sales@stulz.co.uk
www.stulz.co.uk

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www.ocean-insights.com

Scott Brothers are the exclusive UK supplier for the new Honeywell dehumidifier

Leading UK appliance supplier Scott Brothers are proud to be exclusive stockists of the Honeywell TP-Compact 12 litre portable dehumidifier.



The TP-Compact offers a durable and portable solution to household mould and damp issues in small sized rooms including bedrooms, dens, bathrooms – even conservatories prone to condensation during the winter months.

The team at Scott Brothers pride themselves on providing the best quality products at a competitive price teamed with exemplary customer service. At an RRP price of just £149.99 the Honeywell TP-Compact is no exception and comes with a 2-year warranty and is available for next day UK delivery. Scott Brothers also offer a full service to wholesalers UK-wide which can include product training.

The TP-Compact is the latest addition to their Honeywell range of air coolers and air conditioning units. With this new addition to the range, Scott Brothers are able to react quickly to our fast-changing UK weather, varying from record breaking temperatures to record rainfall levels.

The TP-Compact is designed for convenience with user-friendly features and portability, with smooth-gliding castor wheels and convenient tip handles to move the unit from room to room with ease.

T 01477 539500
www.scottbrothersltd.co.uk

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better on every level



The timber marking specialists

In this issue of Industry Update, we have chosen Timbermark ID Systems as our Timber Marking Systems Company of the Month for their innovative range of inkjet printers and services for industry.

Timbermark is a marking systems company that provides industrial inkjet printers, sales, service and supply of consumables. Founded in 2004 by Colin Stewart, Timbermark provides the most technological advancements in high resolution inkjet printing solutions for Sawmills and Pallet manufacturers across the UK and Europe.

Developing significantly since the company's inception, Timbermark is at the forefront of timber marking systems and is constantly evaluating new markets to explore.

"Our customers are industrial manufacturing companies. 15 years ago our focus was on the timber industry, but since then our product range has taken us to a wider



range of customer types," said Colin Stewart, Managing Director and Founder.

With a strong stance on providing expert services and customer satisfaction, Timbermark ensures it delivers the best marking technology and is well equipped to

offer top quality technical support. "We strive to provide well-engineered installations and give excellent service," Colin said.

Maintaining a selection of products, Timbermark has developed innovative solutions for increasing printing performance, reliability and producing a cost efficient benefit. Included in Timbermark's products is their Sojet Range, a high quality printer range with super sharp HP print quality. "Our Sojet range is cost effective, simple and reliable." Colin said, "It is efficient and flexible, with a wide range of inks and colours available. The Sojet V1H handjet contains an interesting scan-to-print possibility for automating data entry."



In terms of a recent development for the company, Timbermark's Yeacode is a new product that produces the possibility of printing with oil-based inks for case coding, or pigmented UV cure inks for printing white onto plastic, metals or even painted surfaces. A great development for the company which is constantly striving to explore new markets, Colin expanded that, "Yeacode produces high resolution and uses a nice touch screen interface. The Yeacode maintains UV-curing ink capability for printing onto glossy surfaces."

Another advancement for the company, Timbermark



recently launched their new e-commerce site, www.t-mark.co.uk, which is specifically aimed at dealers and end users with technical and engineering departments capable of a self-installation.

In terms of the future plans for the company, Colin stated that Timbermark has been expanding its market presence in Europe and plans to continue its work in diversifying into industries other than timber. Colin continued that, "We are also looking for dealers to get involved in reselling the products to their own customer base."

T 0870 803 1877
www.timbermark.co.uk



World class quality, world class safety

Industry Update is proud to announce that Hillbrush has been selected as our Hygienic Cleaning Solutions Company of the Month. Established by brothers Fred and Bill Coward in 1922, Hillbrush remains family run to this day, with headquarters situated in Mere, Wiltshire, and a USA office based in Baltimore, Maryland.

With a range of over 2,000 products and distribution partners in over 90 countries, Hillbrush is the largest UK manufacturer of brushware and hygienic cleaning tools. The company also offers consultative site surveys in preparation for factory audits, helping to improve the certainty of successfully passing, as well as demonstrating the highest levels of hygiene. These site surveys involve a thorough inspection of a plant, with the view to identify and solve hygiene problems before the auditors find them. What's more, as British manufacturers, Hillbrush has the capability to design and produce bespoke injection moulded products for any industry.



Hillbrush continues to be one of the largest manufacturers of wooden brushes in the world, producing a wide range of brooms and brushes which cover a multitude of uses, from patio sweeping to heavy duty rubble clearing.

Indeed, Hillbrush is synonymous with quality, and in 1981 the

company was granted a Royal warrant as a mark of acknowledgement for supplying its products of high order to Royal Households. The Royal Warrant status products have been specially selected for their durability and effectiveness and are also available for purchase by its non-Royal customers.

In the last 30 years, Hillbrush has developed its extensive range of products for use in a vast range of industries, and produces over 1,000 plastic hygiene and food preparation products, predominantly manufactured in house on state of the art injection moulding and brush making equipment. Hillbrush



Hygiene offers unique and pioneering filament retention technology, ensuring the highest standards of filament retention and other specialist cleaning equipment such as anti-microbial tools and metal detectable plastic cleaning equipment. The company also offers Hillbrush Commercial, which includes a selection of products suitable for the janitorial, HORECA (hotels, restaurants and catering) and household markets.

Hillbrush's Anti-Microbial cleaning products are designed for areas that require exceptionally high standards of cleanliness and



bacterial contamination control, and each component is infused with Biomaster. This anti-microbial silver-ion additive works continually, is effective for the lifetime of the product and is proven to inhibit the growth of bacteria by up to 99.99%.

As well as this, Hillbrush offers Resin-Set Dual Retention System (DRS®), the world's most effective, versatile and reliable method of filament retention. DRS minimises the risk of filament loss, which can have severe consequences in the food manufacturing industry. Food-grade stainless steel staples secure the filaments into recessed brush backs, which is then flooded with an Anti-Microbial epoxy resin to



complete the DRS. The product then undergoes an extensive process to ensure the resin fills every void, eliminating areas for dirt and moisture to accumulate. All components are FDA/EU food contact approved.

Moreover, Hillbrush's metal and x-ray detectable tools are specifically developed to minimise the risk of foreign object contamination within food manufacturing. Each component is both metal and x-ray detectable, including the backs, filaments and resin, and all components are FDA/EU food contact approved.



This is just a small selection of Hillbrush's leading product portfolio, which is underpinned by a commitment to providing excellent customer service at all times, ensuring high levels of professionalism, reliability and integrity. After moving to a purpose-built factory and warehouse covering 100,000 ft² in 2017, Hillbrush will be continuing this expansion in the coming years, with ongoing product development and diversification, investing in its people to ensure its high levels of customer service are maintained.

What's more, in April 2017 Hillbrush opened its visitor centre, Visit Hillbrush. This incorporates a gift shop of cleaning and personal grooming products and a restaurant that utilises locally sourced ingredients.

There is also an interactive brush making museum that shows the journey of Hillbrush. Indeed, this is an ideal venue for families looking for activities in Wiltshire, or travellers looking for a comfortable, friendly stop.

For more information, get in touch using the contact details below.

Contact
T 01747 860494
www.hillbrush.com/uk

Listed building can breathe again



After more than 60 years as a school Grade II Listed Moreton House in Bideford, north Devon, has been returned to family ownership. The 100 room property will offer both holiday apartments and function rooms.

Cement repairs and vinyl paints had caused a lot of damp to build up inside the walls, damaging the plaster and wood. In many places moisture was trapped behind the paint.

Internally, the walls are either lath and plaster or lime plastered stone, both of which are being repaired or renewed as necessary with lime plaster.

Earthborn's Claypaint was specified to prevent future damp problems by ensuring the internal walls can breathe. Claypaint is a unique, clay based emulsion. Its advanced technology maximises the natural properties of clay to create a high performance, highly breathable paint that covers exceptionally well and gives a distinctive, ultra matt finish.

Being free of oils and acrylics, Claypaint is virtually VOC free and does not give off any toxic emissions. That means it is safer for the health of building occupants as well as the environment. Its eco credentials include the stringent EU Ecolabel.

Claypaint is available in Earthborn's signature palette of 72 shades. Bespoke colours can be developed through the nationwide network of Earthborn stockists.

www.earthbornpaints.co.uk

New 10KVA with extra 16AMP light circuit



Leading construction site electrics specialist Site Power UK are pleased to launch their latest 10 KVA 110volt safety Transformer the SITE10 XLC – wound in copper for low temperature operating.

Extra Internal 110volt light circuits give total control through its own dedicated MCB panel. 2 x 16 amp internal outputs for "Hard Wiring" safety lights are becoming the norm in today's building sites.

MCBs are now Site Power UK branded and new hi-spec and colour coded for the voltage i.e. yellow (110 volts output) blue (230 volts input).

Best prices in the UK market as they are factory direct supplied and always in stock.

More details are available at www.sitepoweruk.com or technical help desk 0800 999 1103

PREFA

PREFA has been successfully developing, producing and marketing aluminium roof and façade systems in Europe for over 70 years. The PREFA group has over 500 members of staff. Over 5,000 high-quality products are produced exclusively in Austria and Germany. PREFA belongs to the group of companies owned by the industrialist, Dr. Cornelius Grupp, which employs over 8,000 members of staff in over 40 production sites throughout the world.

PREFA products are sold exclusively by contractors and specialised dealers to ensure proper installation of the products. Our customers particularly appreciate the high quality of our products and our reliability.



In addition to end customers in the areas of renovation and new construction, PREFA's target groups are primarily contractors (metalworkers and roofers) and architects who are looked after by our specially assigned staff.

This includes, on the one hand, PREFA consultants who deal with any concerns the contractors may have, and

on the other, project supervisors who work closely with the architects. Therefore, every target group can rely on optimum support from our well-trained staff.

More information on PREFA products and contact details to your assigned PREFA sales manager can be found on our website www.prefa.com.



THE ROOF AS STRONG AS A BULL

PREFA RAINWATER SYSTEMS NOW AVAILABLE IN P.10 COLOURS

PREFA are pleased to announce that our roof drainage system is now available in the popular P.10 colours of anthracite, light grey and brown, which will sit perfectly with the matt roof and façade systems. The special feature of the P.10 coating is the combination of a matt finish, with resistance to chalking caused by UV rays. Furthermore, the colour does not flake, peel or rust, even in concealed areas. PREFA offers you the complete aluminum drainage system, including mounting accessories, from a single source. From the half round gutter to the square pipe, from the foliage catcher to the water catchment box – PREFA have every accessory.

For further information about these and other PREFA products, please contact your regional PREFA Technical Sales Manager.

Contact details are available on the PREFA UK Website.

www.prefa.com

10 GOOD REASONS FOR CHOOSING PREFA

! STORM-PROOF
! RUST-PROOF
! BREAK-PROOF
! LIGHT
! BEAUTIFUL

! COLOUR-FAST SURFACE
! GREAT FOR RENOVATIONS
! COMPLETE SYSTEM
! ENVIRONMENTALLY FRIENDLY
! 40-YEAR GUARANTEE

* The colour guarantee ensures that the painted surface is protected from chips and blistering under the terms specified in the guarantee certificate. You can find more information about the material and colour guarantee at <https://uk.prefa.com/guarantee>



ORDER FREE BROCHURES

WWW.PREFA.COM



NOW ALSO AVAILABLE IN P.10 BROWN, ANTHRACITE, LIGHT GREY



WWW.PREFA.COM

Superglass – Intelligent environments

Superglass, the Stirling based insulation manufacturer has undergone transformational change over the past decade, and its manufacturing facility is currently in the process of a major £37m redevelopment, one of the most significant investments the industry has seen in recent years.

A 187-tonne furnace, curing ovens, cooling, cutting and milling equipment are being replaced and an automatic packing system is being installed. Once complete, the work will double production capacity

to 60,000 tons annually.

Demand for glass wool insulation continues to be very strong both domestically and in export markets and with the company's major manufacturing investment at their Stirling site, Superglass will undoubtedly be well equipped to capitalise on the opportunity presented by these market conditions.

Glass wool insulation produced by Superglass is made from up to 84% recycled glass and is

Intelligent Environments
Superglass

estimated to save around 300 times the amount of energy used to manufacture it.

Aside from capital investments in plant and manufacturing, Superglass will continue to grow their brand amongst merchants, distributors and end users.

T 01786 451170
www.superglass.co.uk

Roofing sealed with approval



As a leading UK Manufacturer of Hybrid Sealants Bond It have now launched their "next generation" Hybrid Roofing Membrane on to the market.

Seal It Liquid Membrane, an easy to apply one coat roof seal, is a modern alternative to traditional GRP, PU and bitumen roof coatings. It is highly reflective, solvent-free, non-flammable liquid membrane formulated for professional roofing applications and requires no special training to apply. Seal It Liquid Membrane is designed to be used on its own, however, in more demanding situations it can be used in conjunction with a primer, accelerator, reinforcement mat and edging and trimming sealer, the system offers a high performance, permanently flexible, watertight, durable, weatherproofing barrier for all existing roof substrates guaranteed for 25 years.

Providing primerless adhesion on a wide variety of building and roofing substrates, it has excellent resistance to ageing, ultra-violet and discolouration. It also provides water vapour permeability, allowing the surface to breathe. Under test conditions, Seal It was shown to have superb cool roof thermal properties outperforming black bitumen by 36% at just 0.8mm thickness. It was also 11.3% more efficient than solar reflective paint all helping to reduce energy costs.

Based on advanced hybrid technology, Seal It remains permanently flexible. It does not harden or soften under extreme weather conditions with very high stability to temperature variations (from -500C to +1200C), to UV radiation and to external chemical attack. It offers many benefits including ease of application, fast curing times, no solvent and virtually odourless and can even be applied on to damp surfaces. Available in grey and white in 5L and 20L eye-catching tins.

For more information on Seal It contact our Sales Team on 01422 315300 or visit www.bond-it.co.uk.

Pumping hot water from a sink with a Zip Tap

Standard wastewater pumps are generally only rated for a fluid operating temperature of 40°C, occasionally a maximum of 60°C.



With Zip taps becoming a common feature, handling the drainage from these sinks requires a more robust pump. Leading wastewater specialist Pump Technology has the solution.

Their technical team looked at pump options to match their compact DrainMinor and selected the Jung Pumpen U3K Spezial (SL). This features a mechanical seal rather than the lip shaft seal normally found with this small size of submersible pump.

Originally designed for mildly aggressive fluids, it has been adopted for challenging pumping requirements. Many leading fast-food chains, report excellent performance in applications with heavy deposits of coffee granules, milk skin etc.

The DrainMinor features a recyclable polyethylene tank and provides the perfect, compact wastewater pumping solution. It also boasts an integral (replaceable) charcoal vent, and a simple-to-remove lid for cleaning and maintenance, enabling easy installation and operation in tight spots.

For appliances such as combi ovens, pasta makers and dishwashers (also all needing to handle hotter water), they offer the DrainMajor with a 730HES hot water pump, suitable for 90°C.

T 0118 982 1555
www.pumptechnology.co.uk

Install new Superglass and you're not just building new homes. It's like you're planting new trees.

Over its lifetime, insulating one house could save as much CO² as planting 212 trees. That's why at Superglass, we put more thought into energy efficiency. Take our new glass wool insulation, manufactured using state-of-the-art technology.

Made using up to 84% recycled glass, it's quicker to install, easier to transport and offers superior levels of thermal and acoustic protection.

Has anyone ever put more thought into insulation?



A more intelligent approach to insulation
superglass.co.uk

Intelligent Environments
Superglass

ERA DoorCam – Smart technology’s latest leap forward

With remote controlled security operating systems becoming ever more popular, the latest tech development in home security is the ERA DoorCam Smart Home WiFi Video Doorbell.

Using a Smartphone app, DoorCam allows householders to view callers and talk to them in real time, whether they’re home or not, offering not only convenience, but thanks to a motion detector which alerts householders when someone has arrived, added security and

peace of mind.

With ease of operation in mind, once DoorCam is wired in, the householder can simply plug in the WiFi chime which comes as standard, connecting up to four more chimes in the home. DoorCam allows for two-way talk with high quality sound.

Contact
T 01922 490000
info@erahomesecurity.com
www.erahomesecurity.com



Before we started, there was no basement



Situated in Wandsworth, London, the property was just your normal suburban terraced house.

The new owners wanted to create a more spacious home, perfect to entertain in and for family life. SDA Build London were called upon to extend the house in all directions and transform it into a space with a cinema room, bar area and even a gym.

SDA Build London are a team of award winning builders that specialise in refurbishments, renovations and restorations. With almost 100 projects completed, Samir Ene (Sammy to colleagues and clients) and the SDA Build London team are known for their expertise, eye for detail and ability to find workable solutions to unforeseen challenges.

Sammy knew a rear extension would be possible, but limitations in property development in the area meant that in order to achieve the maximum space possible, SDA would have to build downwards. Working with the designers at Ade Architecture, the addition of an entire floor underneath the house was planned.

The centre piece of the extensive basement renovation is undoubtedly the home cinema room. With artisan-built furniture, luxury seating, Dolby Atmos surround sound and 100% sound proofing – the movie experience rivals most cinemas. The owners also wanted to add a private bar area that could be used as a

natural extension of the garden. With no permission to extend the property above ground, SDA utilised the basement conversion. The open design with transparent sliding doors, natural lighting and colour palette of the staircase means it feels like the garden flows in from above ground.

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www.sdabuildlondon.co.uk
Architect: Daniel from ADE
Architecture, Designer: Karena Clayton
Main Contractor: BTL



Wiesner-Hager

The classic reception area has become a working café. The reception desk has become a bar. Instead of just sitting and waiting, people can now sit and work or chat. The café entrance is a public area and it is up to the company to decide how public this is.

Guests such as suppliers or customers can make themselves comfortable and use their time effectively. Some companies will even go a step further and open up their reception

bar area to the general public.

Now what does this achieve? For a start, it is certainly one easy way to build a stronger brand image as some people consciously look for more lively places such as cafes or restaurants so that they can work in a more relaxed manner.

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Seamless, sophisticated and sustainable

Tarkett's new DESSO Orchard carpet tile collection brings a slice of the great outdoors to commercial interiors. The unique design mimics the visual effect that's created when viewing a cluster of planted trees from above. Irregular grid patterns are used to create this, as well as adding texture and interest to large-scale commercial projects.

Extremely versatile, the range is available in a palette of twelve colours, which allows Orchard carpet tiles to be combined in various tones to create differentiated 'zones' in large spaces. Tarkett has fantastic credentials in championing sustainable



products. The Orchard collection is Cradle to Cradle® Silver certified and comes with DESSO EcoBase® backing as standard.

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Moneysaving and sustainable transit packaging solutions



Industry Update is proud to announce that Logtek has been selected as our Returnable Packaging Solutions Company of the Month. For over 20 years, Logtek has been delivering moneysaving transit packaging solutions to leading UK retail and food companies, and has established robust, long-standing relationships with retailers and food producers across the country.

With a head office in Birmingham, Logtek has a network of depots throughout the UK, working with companies nationwide to ensure they offer



a collaborative and tailored solution for every situation. "Thanks to our extensive experience, we're really good at what we do, and we look after others' assets as if they were our own," explained Caroline Nash, Commercial Director. Boasting a range of well-known customers, including Marks &

Spencer and Aldi, Logtek is unrivalled in its ability to offer returnable transit packaging solutions. As a supply chain specialist, the company can offer tracking and asset management for businesses which comes with a range of benefits, including washing, rental and repair.

Renting returnable transit packaging offers numerous benefits to businesses, including saving money, improving handling efficiencies and helping them to meet key environmental objectives. Through Logtek's rental services, companies are able to acquire exactly what they need, when they need it, with access to a large fleet of trays, bulk



boxes, wheeled dollies and plastic pallets.

As well as this, Logtek's nationwide network of washing and maintenance centres facilitates the washing and swab testing of crates and bulk bins, and all sites are accredited to BRC standards. What's more, maintenance is provided at all Logtek's wash centres, with inspection and repair services, to minimise the risk of equipment failure.

Indeed, by contracting the Logtek team of asset management experts to manage their returnable transit packaging, businesses can rest assured that they have the correct quantity of equipment at the right location, which is clean, serviceable, and

available on time.

Logtek recently launched two new products, the Optishute and the Hopper, into the caps and closures market. "We're very excited about these," said Caroline, "and about the benefits they will have within the industry."

These were developed by Logtek and its parent company Schoeller Allibert. The Mangum Optishute and Hopper are ideal for transporting, storing and dispensing caps and closures, small bottles, dry food ingredients, and even pharmaceuticals. Indeed, with the circular economy at the forefront of everyone's minds, these solutions take away the need for high volumes of cardboard and shrink waste, and reduce the risk of ovalisation for caps and closures.

After a successful time at the PPMA show in 2019, Logtek will be attending again this year, on 29 Sept-1 Oct at the NEC, Birmingham, so be sure to go along and find out what Logtek has to offer. In the meantime, if you would like more information, head to the website or get in touch using the contact details below.

T +44 (0)121 506 0118
sales@logtek.com
www.logtek.com



Celebrating 40 Years in the packaging industry

In this issue of Industry Update, we have selected Hazel 4D as our Packaging Solutions Company of the Month for their outstanding commitment to improving business performance through packaging for over 40 years.

Established in 1979 by Garth Christie, Hazel 4D has grown from being a local packaging supplier to a leading provider of packaging solutions, machinery and consultancy services to some of the world's most recognised brands. Their clients include blue chip retail companies with multiple distribution centres, large manufacturers and e-commerce businesses.



Their unique approach sees Hazel 4D partner with their clients to improve their business performance, processes and profitability. "We look at the wider picture for our clients and assess how we can improve their business through understanding their transit, delivery and packaging processes", explains Neil Christie, Commercial Director at Hazel 4D. "We don't just sell packaging products; we work with our clients to improve their bottom-line performance."

As well as providing an innovative range of packaging materials and equipment, Hazel 4D specialises in helping customers improve the stability of their pallet loads, reduce product damages and drastically cut their plastic waste.



Hazel 4D's load stability consultations have saved customers an average of 35% of their annual stretch film costs and reduced their plastic film use by an average of 65%. They do so through a winning combination of their expertise, Extremus Stretch Film and Atlanta Stretch pallet wrapping machines.

Painstakingly created using nanotechnology, Extremus Stretch Film is a strong, yet thin stretch

film that, when applied correctly, can be relied on to stabilise even the most difficult of pallet loads. Hazel 4D's partnership with Italian pallet wrapper manufacturer, Atlanta Stretch, has allowed them to produce greater savings for their customers.

"The Atlanta Stretch partnership has been a major development for us and their wrapping machines have proven to be an excellent investment for our customers for improving performance and reducing costs and plastic use." Neil said.

Hazel 4D is committed to sourcing and creating eco-friendly packaging alternatives for their customers. Neil told us that: "Our latest innovations have been led by environmental considerations, including our revolutionary Surf all paper mailing envelopes."

Surf all paper mailers are a completely paper-based alternative to mailing envelopes lined with plastic



bubble wrap. Exclusive to Hazel 4D, the envelopes are strong, lightweight and 100% recyclable, offering the same level of product protection as bubble mailers with a reduced environmental impact.

An excellent platform for the company, Hazel 4D attended the PPMA Total Show in October 2019 – the UK's biggest exhibition of processing and packaging machinery. Neil explained, "We had an extremely positive reception at the PPMA exhibition last year and gained lots of interest and sales. We now have four more tradeshow events lined up for this year."

For further information on Hazel 4D's products and services, head to their website or get in touch using the details below:

Contact
T 0113 242 6999
wecare@hazel4d.com
www.hazel4d.com

Head and eye protection become one with JSP

The new EVO[®]VISTA™ Helmet is an innovative next generation feature rich helmet which incorporates a fully retractable optical class 1 faceshield or overspec within the helmet.

JSP's Research and Development team were inspired by feedback received from people who regularly have to wear head protection alongside eye protection. A common theme was not only the compatibility issue but also the amount of eyewear lost or damaged on site after issue.

The EVO[®]VISTA™ Helmet has not only been designed to meet a standard but to exceed it on many levels. It combines a super strong ABS shell with the choice

of either a EVO[®]VISTAlens™ or a EVO[®]VISTAshield™ depending on the levels of protection and performance required.

The EVO[®]VISTAlens™ functions like a spectacle but offers increased levels of protection to EN 166B 2C-1.2 FT and the EVO[®]VISTAshield™ conforms to EN166 2C-1.2 with impact rating of grade AT. Both are optical class 1 and have anti-mist and anti-scratch coatings offering impact protection at extreme temperatures and UV protection.

The new technology of the fully adjustable pivot arms in the EVO[®]VISTA™ Helmet allows the lens and shield to be deployed outwards and over prescription spectacles

unlike similar systems that require helmet adjustment to fit. JSP prioritise the needs and safety of the wearer and the safety cell concept of the EVO[®]VISTA™ Helmet with the dual shell technology demonstrates this commitment by providing additional protection. The safety cell prevents ricocheting debris travelling up the eyewear and being in contact with the scalp as well as preventing the faceshield or overspec from impacting the scalp should it be forced back on impact.

The EVO[®]VISTA™ Helmet is fully compatible with JSP respirators such as the Force™8 PressToCheck™ and the Sonis® helmet mounted ear defender range. The benefits of having eyewear integrated in the helmet which is fully retractable and protected from scratching



when not in use, easily deployed when needed and fits anyone with prescription spectacles will save companies money, time and worry.

<https://jspsafety.info/EVOVista>

Tough Glove



Tornado Gloves' Electroflex Pro is made using ultra-high molecular weight polyethylene to protect hardworking hands.

Odourless, tasteless, non-toxic, resistant to most organic solvents and corrosive chemicals, it doesn't readily absorb moisture and its abrasion resistance exceeds that of carbon steel.

The glove features extra reinforcement between thumb and forefinger. In addition to protection against cuts and abrasion, the wearer benefits from:

CPU technology: Chemicals in manufacturing may cause irritation. Tornado's hi-tech washing system reduces chemicals so the glove is comfortable to wear.

Anti-bacterial technology: the glove transmits a skin-friendly conditioner onto the hand that kills germs and lasts the lifecycle of the glove.

HDPu technology: a special dip formulation forms a strong, flexible coating, adding durability and extending glove life, reducing both order frequency and cost.

T 0115 961 9555

Get winter-ready with JSP

As winter approaches, warnings have already been issued about extreme weather conditions. Cold weather should be taken seriously, so in preparation for whatever hazards and safety concerns may lie ahead, JSP provides the solutions to all these winter problems, to keep workers' minds on the job, not the weather.



The new JSP Surefit™ Thermal Helmet Liner

This thermal helmet liner will keep workers' heads snug and warm in all weathers. It is specifically designed to be worn under all of the JSP Evolution[®] range of safety helmets, so that users will not be tempted to wear incompatible and dangerous alternatives such as hoodies or other hats under their hard hats. These could reduce their field of vision and compromise the helmet's fit, endangering both themselves and others should the helmet fall off.

The JSP Visilite[®] Helmet Illumination System

Bleak winter weather combined with fewer daylight hours means that the need for optimum worker visibility on site at all times increases.

The Visilite[®], JSP's unique lighting system for its Evolution[®] range industrial safety helmets, cleverly solves the

problem of gloomy and dim light at work. Effortless and quick to fit, it simply clips securely onto the sides and rear of the helmet, allowing fibre optic light to shine all around it. It is splash-proof and can safely be used in wet weather and very cold conditions.

The USB-rechargeable Visilite[®] offers three lighting modes – static, fast flash, or slow flash – suiting the needs of any user.

JSP's Winter Hardcap A1+™ Bump Cap

JSP's Winter Hardcap A1+™ is designed to easily exceed EN812+A1 standard, which requires protection at four impact sites. It features fold-down flaps that cover the ears and neck for added warmth and protection, so is suitable for use in food industries or cold storage or in any bitter winter outdoor conditions.

More information is available from www.jspsafety.com

A small price to pay for peace of mind



Prefect Controls are pleased to announce the arrival of a new member to the Hobsafe family, the PRE 9276.

The single gang unit is installed between the Hob and the cooker isolator switch, at a convenient location for those preparing food and ensures that hobs cannot be left on should the cook be distracted.

This version of Hobsafe has the same features as the popular 2 gang versions but is more compact. The capacity of the unit is 30Amps with 15, 20, 30, or 45-minute run-times being selectable during installation. There are both a neutral feed terminal and a neutral output. These large (13.3mm) terminals make fixing easy and quick - eliminating the fiddly issue of

doubling up two cables into one terminal.

There are two modes of operation, Fixed – when the timer runs its course, or On/Off – where a second press of the button allows the time-run to be stopped at any point.

Hobsafe is easy to use with simple button operation and clear LED indicators, which are dimmable. When the current time-run is about to expire, the red 'hob active' LED will flash to warn that the hob is about to be turned off, giving the operator the opportunity to reset the timer if necessary.

Hobsafe conforms with EN60730 and is moulded in PC/ABS making the timer extremely durable. PC/ABS is fully UV stable and is resistant to cleaning products. A gloss finish overlay allows for easy cleaning.

Prefect controls are also able to install Hobsafe – providing a one stop peace of mind service for student accommodation managers, safety conscious landlords, and care partners of those living with dementia.

For more information contact Adrian Barber at Prefect Controls on 01787 320604.

Casella's VAPex Pump



Casella, air sampling, noise and vibration specialist, has launched its advanced and lightweight low flow pump, the VAPex. The elite low flow pump has a flow rate of 20mL to 500mL/min and is the ideal solution for measuring and employee's exposure to vapours and gases.

The pocket-sized sampling device has a run time of over 34 hours under typical operating conditions. In addition, the VAPex pump is designed with three LED lights that indicate the pumps status from a distance, preventing any unexpected disruption of monitoring activity.

By using the VAPex Pro in conjunction with Casella's Airwave App via Bluetooth, the operator can easily record notes during the monitoring using a tablet or mobile device. This can drastically save time when later writing reports.

Tim Turney, Technical Product Manager at Casella explains, "Our new VAPex low flow pump is designed to make chemical exposure assessments easier and quicker for hygienists concerned with the health of employees. The VAPex is designed with a robust design with great backpressure capability meaning multiple tubes can be tested at the same time, providing a pain-free monitoring solution."

Casella's VAPex is available for delivery from June 2019.

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Making kitchens safer

The timer that prevents hobs from being left on if the cook is distracted. Hobsafe provides peace of mind for safety conscious landlords and care partners of those living with dementia. Hobs are turned off after a predetermined time, ensuring the kitchen is left safe. On-Off or Timer modes offer a choice of operation. Hobsafe is ideal for student accommodation and other multi-occupancy dwellings.

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The UK's leading manufacturer of screws and barrels

Industry Update is proud to announce that MAGOG Industries has been selected as our Machinery Components Company of the Month, for its high quality range of screws and barrels for the plastics and rubber processing industries.

Established in 1956 as a general engineering company serving the local manufacturing industries, MAGOG Industries has evolved over the last 60 years to offer the design, manufacture and supply of processing, mixing and conveying screws and barrels, as well as general engineering machining services.

"One of our key advantages is that we design everything to meet our customers' specific processing and production requirements," explained John Allsop, Director. "Our three core competencies run through everything we do: process experience, manufacturing expertise, and engineering excellence." Indeed, Magog Industries offers a comprehensive service, maintaining total customer confidence thanks to its expert capabilities.

"Our engineering sales staff have years of experience

in the processing industries, as well as in a range of different materials, so they can offer expert advice and recommendations to help optimise customers' processes. We also have a specialist screw and barrel manufacturing facility, which is complemented by



strong supply partnerships with companies who are at the leading edge in their sectors. We also offer refurbishment of pre-used parts, which can help customers save money on obtaining replacement parts."

MAGOG Industries is dedicated to maximising customers' processing and production, drawing upon years of experience to offer screw designs and processing technologies from single start compression screws, through to a range of mixing elements for optimised distributive and dispersive mixing. The company is a specialist in parallel and conical twin screws, offering a range of designs which are specifically suitable for pipe, profile, sheet and compounding applications.

Most of these screws are manufactured from high quality EN41B steel, which

creates a good general purpose component that can be refurbished by MAGOG Industries at a later date. What's more, for more demanding high wear or corrosion applications, screws can also be supplied with additional surface treatments to offer optimum resistance.

The company's extruder and injection barrels are available in an array of specifications, which are designed to work in conjunction with the screw to offer an optimal extrusion process and maximum resilience to abrasive wear or corrosion.

"We've been focusing heavily on looking at measures to ensure high quality standards, and surface treatment for abrasions and corrossions, increasing resilience and developing systems which are



designed for longevity, specifically in ceramic and chrome seal applications," John explained. "We'll be continuing to innovate and develop our skills to ensure we are always offering the most up to date and highest quality services."

MAGOG Industries attends various UK Plastic Exhibitions each year. "We have increased our activity here recently, especially in recycling and



re-processing, and we always get a positive response from these," John concluded. If you would like to find out more information on how MAGOG Industries can help you, head to the website or get in touch using the contact details below.

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Oil, Gas & Offshore Update

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The Tinytag Instrumentation range of voltage, current and count data loggers connect to a variety of third-party sensors, enabling you to monitor properties such as pressure, flow rate, rainfall and footfall.

Voltage data loggers measure from 0 to 25V DC, current loggers from 0 to 20 mA DC and count loggers record up to 14,000 counts per logging interval.

Each data logger is factory-configured to custom specifications so that the device shows readings appropriate for the sensor it is connected to. Lead time for a

customised data logger is only ten working days, so you can start recording the data you need in no time.

Tinytag Instrumentation data loggers are available in two models: robust Plus 2s are ideal for outdoor applications, while View 2s have digital displays for spot-readings.

Features include:

- ▶ 32,000 reading capacity
- ▶ Two-year battery life
- ▶ Higher resolution and accuracy
- ▶ Fast download speed
- ▶ Compact design for easy portability

Tinytag data loggers are manufactured in the UK by Gemini Data Loggers (UK) Ltd.



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www.gemini-dataloggers.com
www.tinytag.info

Radar: The better Ultrasonic!

Next generation compact radar level sensors look destined to change level measurement in the water and wastewater industries.

New 80 GHz radar level sensors dedicated for the water and environmental sectors has been launched by VEGA. These 80 GHz-based sensors are priced to meet the commercial needs and applications in the sector with no compromise in capability. They use precision focusing to deliver accurate, reliable measurements, regardless of internal structures or prevailing conditions, such as temperature, weather, fouling and they have no blocking distance.

This sensor is small sized and loop-powered – available as a compact fixed (IP68) cable connection or with a housing and display. The FMCW-based VEGAPULS 80GHz instrument series has LPR approval and can measure liquids or solids up to 30m with fast start up for battery power (SD112 and Modbus). The range has optional new VEGAMET 800 series field controllers for level, flow and pump control.



All sensors and controllers can be adjusted and viewed via Bluetooth with a free App on smartphone or tablet, to make setup and diagnostics easier, safer and faster, especially in harsh environments or in hazardous areas. Find out more and book a demonstration or trial at: www.vega.com/vegapuls

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Now on-air! New short film takes you on the journey to redefine the kilogram

Greifensee, Switzerland, May 23, 2019. In an impressive act of cooperation, the General Conference of Weights and Measures member states voted to adopt a new kilogram definition for the first time since instituting the international prototype kilogram, or IPK, in 1889. This was the culmination of the years-long effort to create greater constancy in mass measurement examined in "Everything Different, Nothing Changes: Redefinition of the SI Unit Kilogram," a new short video by METTLER TOLEDO.

At a basic level, all standards including mass are now tied to fundamental natural constants. In the case of mass, the referenced value is the Planck constant, also known as the fundamental constant of quantum physics.

In the 20-minute piece, METTLER TOLEDO, Dr. Richard Davis, BIPM, and other metrology experts including Dr. Philippe Richard, METAS, explore the science behind the definition, as well as the nearly poetic way the definition was able to be proven. This combination of smart thinking and technological excellence has produced measurement accuracy that is accessible for all people in all places at all times.

Rare footage takes you inside areas normally reserved for only a few metrology experts to witness everything from the highly technical Kibble balance used to calibrate reference artifacts to equipment used to create the enriched silicon sphere that was also part of the proof. These strong



visuals help to make real the ongoing discussion around the kilogram—a discussion that can seem largely theoretical, especially to those accustomed to dealing with physical weights. The new kilogram definition eliminates the need to rely on a physical object located in one place, providing limitless and previously unimaginable access to mass-measurement accuracy. METTLER TOLEDO is pleased to have been part of the effort to make this new definition a reality.

To see a brief, exciting trailer for the video, please visit – https://youtu.be/rBY089_11E4

To view "Everything Different, Nothing Changes" in its entirety, please visit – <https://youtu.be/k2XK19V7J3s>

Additional information about METTLER TOLEDO can be found at www.mt.com

1.77-inch TFT-LCD from transfective experts DISEA

Display Technology has extended the selection of miniature transfective TFT-LCDs from new supplier DISEA Electronics with a 1.77-inch model for long-lasting performance in harsh outdoor or industrial environments.

The new model, ZW-T177TTS-101, has a wide operating temperature range from -30°C to 75°C. The display ensures consistent readability with low power consumption in variable ambient lighting, making it ideal for industrial instrumentation or portable, battery-powered applications such as field-test equipment and handheld devices.

The 160 x 128 resolution ZW-T177TTS-101 has slim and compact module dimensions, measuring 40.77mm x 36.20mm x 2.2mm. The operating voltage range of 2.5V-3.6V and TTL 8/16-bit host interface ease system integration and help maximise run-time in battery-powered equipment.

The ZW-T177TTS-101 is in stock now at Display



Technology. Contact the office or visit the website for further information and additional sizes in the range. DISEA Electronics has recently been added as a new TFT manufacturer. DISEA Electronics offer a cost-effective transfective technology through their ZW-T series.

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ABLE are pleased to announce that we are Magnetrol's new partner

ABLE are pleased to announce that we are Magnetrol's new partner for exclusive distribution and support in the UK & Ireland. Magnetrol's name is highly respected in the Oil & Gas and process industries with a product portfolio that offers an extensive range of innovative level & flow information.

ABLE & Magnetrol share a common commitment to solving tough application

problems and providing the optimum solution to measure the primary process variable, whether using an "out of the box" instrument or a bespoke designed system.

Furthermore, Magnetrol's undertaking to deliver excellent service and competitive pricing for process control instrumentation mirrors ABLE's own philosophy and lays the foundations



for a mutually rewarding and enduring partnership.

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Techsil's Form-in-Place Foam Gasket Service Expands Capacity by 25%

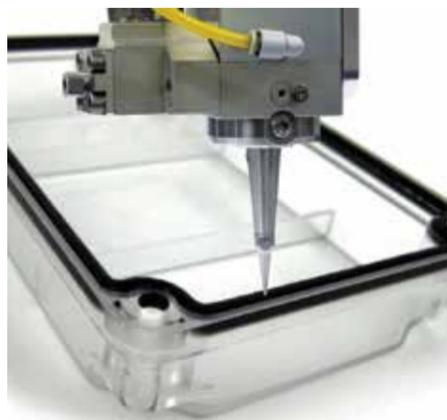
To meet the growing demand for their contract Form-in-Place Foam Gasketing (FIPFG) service, Techsil are pleased to announce a 25% increase in production capacity.

This has been achieved at the UK manufacturing site with the addition of a 4th production cell.

Using an innovative single-component liquid polyurethane foam sealing system and machine

technology Techsil's bespoke FIPFG contracting service is the economical and reliable solution for replacing labour intensive peel and stick gasket applications.

For further information on Techsil's FIPFG contracting service please contact our technical specialists on technical@techsil.co.uk or go to www.techsil.co.uk/resource-centre/form-in-place-foam-gasket-service/



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100% seal inspection for better packaging results



Engilico's SealScope™ helps to minimise customer complaints on badly sealed packages, reducing waste from tons per year to just a few packages per month.

Industry Update is proud to announce that Engilico has been selected as our Packaging Technology Company of the Month, for the development of its outstanding systems to inspect and monitor sealing processes.

Founded in 2011 by Olivier Georis and Peter Nijs, Engilico's headquarters is based in Leuven, with sales offices in Germany and the US and a worldwide distributor and partner network. With a vast range of clients for whom the preservation of package content is critical, Engilico boasts over 150 installations at top international companies, including Unilever, General Mills, FrieslandCampina, Materne, Ecolab, Puratos and many more.

Engilico's key solution is SealScope™ for 100% seal inspection of flexible packages. During the closing of a package, the sealing status is measured using sensors that are retrofitted to the sealing bars of the packaging machine. Every seal measurement is then compared to the reference signal of a good seal, helping to identify

and reject packages that have been compromised due to wrinkles, folds or product in the sealing area. "By 100% inspecting the sealing process, the number of incidental wrong packages can be reduced by a factor of 10 or more," said Renaat Van Cauter, Marketing Director. "Also, using the monitoring function of SealScope™, the production line can be optimised to increase packaging speed while preserving the sealing quality."

Indeed, because SealScope™ is integrated directly into the packaging machine, Engilico can provide 100% in-line sealing inspection and process monitoring. This leads to a number of advantages for clients, including better packaging quality, increased packaging productivity and elimination of manual inspection enabling end-of-line automation.



"About 1% of the total outgoing production had micro-leaks and was returned. This has now dropped to a few packages." Yannick Baudoux, General manager of SCHOEPS S.A.



Wrinkles or product in the seal lead to leaks reducing shelf life

One of Engilico's customers, SCHOEPS, chose SealScope™ to inspect its grated cheese bags for defective seals, which is a prevalent issue as the product is packaged under modified atmosphere conditions. Yannick Baudoux, owner of SCHOEPS, commented, "We drastically reduced our customer complaints on badly sealed packages. Before the installation of SealScope™, about 1% of the

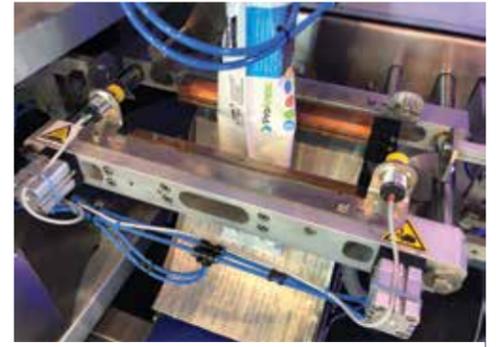


Typical flexible packages inspected by SealScope are pouches, VFFS bags or flow wraps

3,500 ton outgoing production was returned with micro-leaks. This has now dropped to a few packages." Indeed, such an enviable feat is proof of the unrivalled capabilities of Engilico's seal inspection solutions.

With a dedication to continuous innovation, Engilico is also focusing on solutions to help detect contamination in seals of thermoformed packages and trays. HyperScope™ uses hyperspectral imaging (HSI) technology for the detection of contamination in the seal with a much higher contrast than traditional vision-based systems. "One of its main benefits is that it measures through both transparent and printed films," Renaat elaborated, "the latter of which is impossible for standard vision cameras."

As well as these recent product developments, Engilico has been expanding its sales and marketing activities in both Europe and the US. "As demand has been growing strongly in the US, we recently established a subsidiary in the US to allow our customers to work directly with local Engilico sales and support staff. Also, our goal is to significantly increase the awareness of Engilico's capabilities of sealing inspection in the packaging industry by attending worldwide tradeshows, publicising customer stories, and developing online media."



Distance sensors on the sealing bars of a VFFS packaging machine

Of course, Engilico's expert capabilities are continuously evolving. As packaging continues to progress, inspection technologies must also be refined to keep up with new packaging types, productivity, and quality levels, a challenge which Engilico is more than capable of addressing.

For more information, please see the contact details below.

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Operator with SealScope™ touchscreen monitoring console

The British Labelling Manufacturer



Within this issue of Industry Update we have selected leading British manufacturer, Premier Labellers as our Labelling Machinery & Packaging Services Company of the Month.

First established in 1994 by David Palmer, David first started the business to service pre-existing machines but after listening and responding to the industry's needs and from his own experience, David began to manufacture his own machines.

Premier Labellers has seen unprecedented growth since its inception and has moved from its original facility at a farm in Harwich into a much bigger facility at Bathside Bay. "The facility is far bigger and last year we invested around £800,000 in refurbishing the facility which has



allowed us to expand and double its size." Josh White, Business Development Manager.

In terms of the products and services they provide, we spoke with Josh who told us that, "what many people don't know is that we have two separate companies but we operate under Premier Labellers. PLF UK Limited is where we design, manufacture and sell labelling machines and equipment and Premier Labellers provides contract packaging services. The two companies also work quite well together as a customer may use our contract packaging solutions while waiting for their machine to be built and we've had customer use us



for contract packaging and having liked our machines, decided to invest in purchasing one from us."

Premier Labellers specialises in real British manufacturing quality and source all components for its machines and products locally. "We are also the only British labelling company with no sales team. The advantages of this allow us to be more personable and keep our quality high and costs low." Josh said.



Providing an extremely personal approach to business, Premier Labellers finds solutions to fit their customers' needs and provides custom built machines to fulfil the needs of their customers. "We do not believe in a one-size fits all approach to labelling machinery." Josh explained. "Our customers will sometimes ask us if we have a machine that would suit their product but we build machines to run for our customer's products, meaning that their products dictate our machine, the machine does not dictate the products."

A feat within the company's array of machinery is its flagship model the P250 Labelling Machine. The P250 is a modular design which is extremely adaptable, allowing for its design to be modified to the requirements of certain products. Josh stated, "The P250 is the preferred model of choice by the majority of our customers; it's



very flexible and is able to handle the widest range of products."

Maintaining a strong stance on customer satisfaction, Premier Labellers has built long working relationships with many different companies. "We treat every company the same, from start-up companies to multimillion corporate companies – we treat everyone with the same respect." Josh continued, "No matter how big we get, we treat our customers like family, which is something really important to us. One of the main reasons that we keep a small team is to provide our customers with a personal approach to make sure that they are well looked after and responded to quickly."

With a lot of exciting new announcements to be made in the upcoming year. Dan Lee Searle, Digital Marketing Executive stated that, "We are also in a phase of digital development with advancements on our website and support network. it's worth keeping an eye on our social media channels and signing up to our mailing list to keep on top of our updates. We will also be at the PPMA show where we hope to launch new products and also attending the Propak show in South Africa."

T 01255 553822
www.premierlabellers.co.uk



The National Franchise Exhibition Review Top 10

The National Franchise Exhibition

The National Franchise Exhibition is the largest franchise exhibition in the UK. Taking place on the 4th and 5th of October 2019, the National Franchise Exhibition was hosted at the Birmingham NEC.

Over the course of two days, visitors flocked to the NEC, with over 150 exhibitors and numbers of visitors recorded in its thousands.

The National Franchise Exhibition is the perfect platform for visitors and exhibitors to uncover a range of opportunities. The event contained both well-established franchises and new franchise companies, providing valuable networking and franchise researching opportunities.

Through the exhibitions partnership with the British Franchise Association (BFA), the National Franchise Exhibition ensures that all exhibiting brands have been



through an accreditation process and demonstrated that they operate a genuine business format franchise.

Returning to the NEC Birmingham in 2020, the National Franchise Exhibition is taking place on the 13th and 14th of March 2020.

This is our pick of the best exhibitors from the show, listed here in alphabetical order: Driver Hire, Maplebrook Wills and ServiceMaster. Further details can be found on this page.

Contact
www.franchiseinfo.co.uk

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At Driver Hire, average full year sales for our franchisees in 2018/19 was £1,214,978. This delivers an average net profit, per unit, of over £140,000

per annum. An office-based recruitment company, the core of our business is the supply of temporary staff in the transport and logistics sector.

We work with any organisation that has a transport operation. Driver Hire has won a string of recruitment and franchise industry awards, including the 2019 bfa HSBC 'Franchisor of the Year' award.

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excellent customer service and the commitment and desire to build a successful, profitable franchised business. The entry-level investment is £35,000 with funding schemes available, subject to status.

Call now on 01274 361073 or email franchise@driverhire.co.uk

www.driverhirefranchise.co.uk



ServiceMaster

ServiceMaster Clean® franchising was introduced to the UK in 1959 where the first businesses offered both carpet and upholstery cleaning services.

Additional services such as disaster restoration, office cleaning (contract cleaning and commercial cleaning), furniture repairs and restoration (Furniture Medic®), domestic cleaning services (Merry Maids®), lawn care treatments (TruGreen®) and bookkeeping services (Rosemary®) were added over the next 45 years, and we now have over 700 franchise licenses throughout the UK.

One of the key benefits in owning a franchise business is that although you may be working for yourself, you are never by yourself. In addition to the franchise support team, there's the rest of the franchise network to help you along your way.

Our team is built on a strong foundation of relationships and friendships that stress the importance of helping each other develop. Like most families, we believe in supporting each other. Furthermore, we are proud to be one of the seven founding companies of the British Franchise Association and fully subscribe to their Code of Ethics.



We believe that franchising is the way forward for business success and love nothing more than seeing our franchisees reach their business and lifestyle goals.

www.servicemaster.co.uk

Maplebrook Wills

Maplebrook Wills is a network of Will Writers providing wills and related financial services to the public. Estate Planning is a recession-proof industry in which it's surprisingly easy to develop a business bringing in six figures every year whilst also providing a vital service.

Launched as a franchise business in 2018 by award-winning Will Writer, Mike Pugh, Maplebrook has attracted a team of experts in the industry. Our ZEN Desk provides almost instantaneous support and guidance from senior Will Writers and STEP qualified solicitor with decades of experience meaning you need not be concerned about estate size or complexity.

Managing clients can be a full-time job, which is why our franchisees use the Maplebrook EDGE to run their business. This custom-built software platform was specifically designed for Estate Planners – it helps capture leads, move them



through the client journey, draft legal documents, and never forget a call or appointment. EDGE also handles pre and post-meeting admin functions such as terms of business, invoicing, and payments. There is nothing like the Maplebrook EDGE in the industry.

Maplebrook Wills has expanded rapidly over the past year. Growing at such a fast pace, we've got a lot of territories available, but the good ones won't last long.

Contact
T 0117 440 1555
www.maplebrookwills.co.uk

Industry Update

BMV Award Winners 2019

We are very proud to announce that Hillbrush has won the coveted 'Large Business of the Year' award at the Blackmore Vale Business Awards.



More than 300 finalists attended the awards dinner which celebrates the best of business – from start up businesses, individuals and family businesses through to large companies such as Hillbrush, all based in the Blackmore Vale covering Dorset, Somerset and Wiltshire.

Hillbrush was up against stiff competition in the large business of the year category, competing against technology company CETSAT, procurement specialists Ebit Business Solutions Limited and Harts of Stur, one of the UK's largest in store and on line retailers of cookware, kitchenware and kitchen electrics.

As part of the competition process, Hillbrush was visited by representatives from both the sponsors and organisers to find out more about how the company operates. The judging panel discussed Human Resources, Corporate Social Responsibility (CSR), manufacturing processes, future investments and marketing strategies with Hillbrush's directors.

Charles Coward, Hillbrush managing director (and Chair of the ABMA's Safety and Standards Committee) commented: "After the award was announced, members of the judging panel were full of praise for the Hillbrush business and the vision and opportunities we have for the future. This award is a credit to all the staff and those who have contributed to the business over the last year. Well done team!"

Contact
www.hillbrush.com

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www.subcondrilling.co.uk Email: dean@subcondrilling.co.uk

The most professional servomotor planetary gearbox manufacturer in the world

Industry Update is proud to announce that Apex Dynamics UK has been selected as our Automation and Process Control Company of the Month, for its outstanding range of high precision planetary gearboxes.

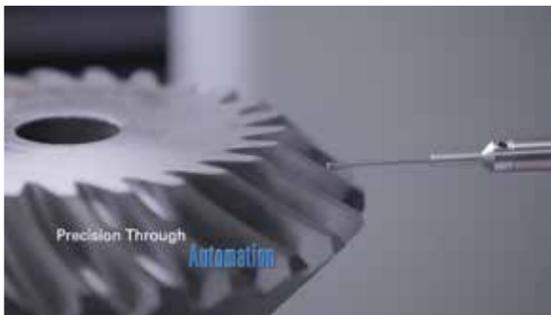
Established in January 2019, Apex Dynamics UK is the exclusive UK distributor of Apex Dynamics Inc.'s high precision helical planetary gearheads. Located in Uttoxeter, Staffordshire, Apex Dynamics UK services the UK and Ireland markets with all products created in its CE and ATEX certified manufacturing facility. With over 100,000 units in stock to meet clients' immediate needs, and over 84 different product lines to optimise servo applications, Apex Dynamics UK is a leading manufacturer and distributor of high quality and excellent value servomotor drive planetary gearbox technology.

"One of our key benefits is our industry-leading product design," explained Mike Gulliford, Managing Director. "We have numerous patents in our technology, and our



products feature high power density relative to their size. We also offer excellent delivery performance, with lead times of three weeks or less. This is market leading, with many other companies offering delivery closer to 16–20 weeks. We are also the only supplier in the industry to offer a five-year worldwide warranty, including the seals and bearings."

Without a doubt, Apex Dynamics UK's unparalleled delivery capabilities and unique five-year warranty makes it the number one choice for companies working in a vast array of industries. "Our primary customers work within packaging and food processing, printing and laser cutting, but we also have customers based in woodworking, medical and military sectors," Mike elaborated. "The range of applications for our planetary gearboxes is very wide, and we pride ourselves on being the world's most professional manufacturer of such technology."



Recently, to cope with its continued expansion, Apex Dynamics UK employed a new sales manager for the Northern region, Malcolm Hillary, who brings with him an impressive level of industry experience. "We will be adding more engineers and expanding our product range in the next few years. We've already expanded our range of gearboxes for the food industry, and we will be expanding our portfolio in relation to manufacturing and stainless steel in the near future."



After great success at the PPMA Show in September 2019, Apex Dynamics UK has a busy calendar of events planned for this year. This will include The Manufacturing & Supply Chain Conference & Exhibition in both Dublin (Citywest Exhibition Centre, 29–30 January) and Belfast (Titanic Exhibition Centre, 27 February), The Drives & Controls Exhibition (NEC Birmingham, 21–23 April), and the PPMA Show (NEC Birmingham, 29 September–1 October).



Be sure to go along and see first-hand the leading quality products the company can provide.

If you would like to find out more information on everything Apex Dynamics UK has to offer, make sure you get in touch using the contact details below for the only official Apex Dynamics products and services available.

T 0121 737 1170
sales@apexdynauk.com
www.apexdynauk.com



Comprehensive labelling solutions for the chemical industry

Industry Update is proud to announce that OPM Europa BV has been selected as our Chemical Labelling Company of the Month, for its outstanding range of labelling solutions for some of the largest chemical companies across Europe.



Established in 2015 by Dursun Acun, OPM is based in Tilburg, The Netherlands, and works with clients across the continent. "We supply booklet labels or multilayer wet glue labels, and primers for flexible packaging or direct-to-shape printing for water-based Memjet™ inks. We also offer the LabelSaver™, a machine which makes it possible to print direct-to-shape on jerry cans, bottles or metal paint cans," explained Dursun.

Indeed, OPM is dedicated to finding clever labelling solutions to make it possible for its customers to save on logistics, by changing to different labels and reducing the number of SKUs in their warehouse, for

example. What's more, OPM keeps stock for certain customers, allowing for quick deliveries when needed and high flexibility.

With a dedication to innovation, OPM is the first company in the world which made it possible to print directly onto jerry cans, paint cans and HPDE/LDPE bottles on large production runs. With its machine, the LabelSaver™, the company can print up to 500 jerry cans an hour in full colour, 360° around. What's more,



if you need another object to be printed, OPM can adapt its solution, with the possibility to print directly onto 200 litre drums if needed.

Developed by OPM, the LabelSaver™ was designed with the help of highly creative engineers, and the company welcomes potential clients to visit its factory and see how the machine can help with their processes.

Recently, the company separated its main products into two separate companies: OPM Europa BV for labels and primers, and LabelSaver BV, for the LabelSaver™ machine and its supplies.

"Within the next five years, we want to grow, selling 50 machines a year," said Dursun. "Currently, we operate within Europe, but with the LabelSaver™ we

will be working all over the world, simply because we have demands from across the globe. We are always looking for new ways and possibilities to help our clients. If something seems impossible, ask OPM."

Without a doubt, OPM is a true pioneer in labelling solutions, offering leading chemical companies across Europe and the rest of the world high quality and reliable products.

If you would like to find out more information on everything OPM has to offer, head to the website or get in touch using the contact details below.

Contact
T 0031 85 018 56 92
labels@opm-europa.com
www.opm-europa.com

Improve yield and performance of livestock with Biocell Agri

Industry Update is proud to announce that Biocell Agri has been selected as our Animal Feed Company of the Month, for its specialist range of supplements to help optimise the health and productivity of livestock.

Established in 2003, Biocell Agri is based in Lochans, South West Scotland, serving the whole of the UK as well as further afield in Hungary and Belgium. "We are yeast specialists," explained Alec Ross, Director. "We purchase a live strain of yeast from Northern France and take it to a specialist manufacturer in Devon, where it is turned into a product we can sell directly to farmers to give to their livestock. This helps to make processes more efficient, increase animals' health and increase farmers' profits."

For many years, Biocell Agri has been a specialist in the field of applied microbiology in animal nutrition, managing rumen function for maximum performance

and safeguarding health through effective mycotoxin control. The company offers the most comprehensive choice of specialist ingredients for the complete diet feeder, home mixer, and any farmer who wishes to achieve maximum return from home produced feeds and forages, while exploiting the true genetic potential of all stock.

"We offer the most concentrated strain of yeast on the market, and our products are created through knowledge we gain from tests and from what farmers tell us they need, so we have a well-informed approach to everything we develop," Alec elaborated.

Indeed, high yielding dairy cows and intensive finishing cattle are able to reach their genetic potential for production with enhanced rumen activity and disease prevention. This is achieved through carefully balanced diets and the inclusion of pure live yeast (Biocell) and mycotoxin deactivator (Mycocell),

which have been chosen for their effectiveness, consistent performance and health benefits.

What's more, these benefits are not confined to dairy and beef production. After extensive trials with sheep and finishing lambs, Biocell Agri has obtained full EU approval for sheep and milking goats, and Biocell is the only pure live yeast product on the UK market which has been approved for dairy cows, beef cattle and calves, sheep, goats, and horses.

Nearly all of Biocell Agri's products are organically approved, and the Biocell yeast comes in a range of formats, including Farm Mix, BC, Dry Cow, Grazing, High Grain, and Lac, appropriate for a range of animals and their varying requirements.

In addition to these live yeast products, Biocell Agri also provides silage treatment and slurry management through First Choice silage inoculant

and Slurrycell, which are both highly important aspects of farm profitability.

"In the future, we will be looking to work with new agents and distributors to increase our customer base in some of the quieter areas across the UK. We're also hoping to increase our work in the rest of Europe in the next few years," Alec concluded.

If you would like to find out more information on the astonishing array of benefits Biocell Agri's products can offer, and exactly how its live yeast works, head to the website or get in touch using the contact details below.

Contact
T 01776 820647
M 07718 905625
biocellagri@btinternet.com
www.biocellagri.com



Committed to optimal livestock hygiene and performance

Industry Update is proud to announce that Progiene has been selected as our Livestock Hygiene Company of the Month. A division of ruminant nutrition expert Rumenco, Progiene was launched in November 2013 to offer high quality hygiene products to livestock species, including dairy cows, beef cattle, sheep, poultry and pigs.



Based in Burton-on-Trent, Progiene boasts an expert team with a range of specialisms, including in milking equipment, mastitis control and planning, and lameness trained through a variety of resources including Cow Signals. "We are specialists in all the key areas of livestock hygiene, and have a broad range of expertise," explained Alison Clark, Business Unit Manager.

Indeed, Progiene is committed to optimal herd health and the production of high quality milk. It understands that mastitis, lameness and poor fertility are some of the significant income-draining problems for UK dairy farms; "30% of cows are lame in the UK, and each lameness incident costs the farmer £2.20 a day per cow – for the period of a lameness incident, this can create significant costs for farmers," Alison elaborated.

Thankfully, Progiene's products can help establish sound hygiene routines and ensure farmers are using high quality dairy hygiene chemicals, to help make the difference between profit and loss.

"We have a network of merchants who sell to farms, and we often go to the farms with the merchants to create leads. We always do our best to address enquiries, giving advice over the phone if it's a simple issue, and going to the customer's site if direct help is needed. We're a practical team – we like to see the problem first-hand to ensure we are offering them the most appropriate solution."

Progiene offers an innovative range of quality teat dips, sprays and foams, circulation cleaning detergents, bulk tank cleaners, cluster disinfectants, hoof care, and bedding conditioners. As well as its own branded products, Progiene is also a licensed distributor for Ecolab and Uddergold® products.



"With the Uddergold distribution, we are the only ones in the UK to have a licensed chlorine dioxide teat dip," said Alison. These offer unrivalled protection against the causes of mastitis in cows and represent the gold standard for teat hygiene. The range offers pre and post milking teat dips, sprays and foams, which are proven to be more effective than other teat dip formulations. Chlorine

dioxide provides a simple, cost-effective system for protecting teats against all possible causes of mastitis infection.

"We're always looking for new and innovative alternative options to maintain livestock hygiene," explained Alison. "We've developed a lameness app, which we'll be releasing in the next few months, and we've recently added the Digicur Advanced footbath to our hoof care range."



With a regular calendar of trade events, Progiene will next be exhibiting at Dairy-Tech on Wednesday 5th February 2020 at Stoneleigh Park, Coventry. If you would like to find out more information on Progiene's full range of products, head to the website or get in touch using the contact details below.

Contact
T 0808 178 1010
info@progiene-dairy.com
www.progiene-dairy.com

ElectroCraft continues to lead motion control market innovation



With a mission to be the most trusted and valued specialised motion system partner, ElectroCraft is helping customers who are dissatisfied with having to design around inflexible, off-the-shelf products. Thanks to their expert technical knowledge and customisable product families, ElectroCraft can offer a premium design experience, which results in motor and motion systems that deliver superior reliability and performance at the lowest possible cost.

With industry leading expertise, ElectroCraft strives to understand the real challenges their customers face, incorporating this knowledge into current and future product designs. Indeed, ElectroCraft is much more than a motor and motion control manufacturer; it is a consultant, partner, and highly adept problem solver. Empowering customers to develop products without the restraints or limitations created by other suppliers, ElectroCraft offers the freedom customers need to create innovative solutions, providing a comprehensive and unbeatable customer experience.

"It has been an interesting 12 months," said Scott Rohlfs, Director of Product Marketing. "We've been focusing on our purpose, why we do what we do, which has been highly beneficial for our internal growth as well as our customer's success. We're continuing to move in an exciting direction and we're looking forward to what 2020 will bring. We've accelerated our product development and innovation, and we're continuing to expand our product lines across the board. However, we have a common thread in our expansion of Brushless DC Motors, Drive Products, and Mobility Solutions; the developments in these areas are improving motion control options for our customers."



we do," Scott elaborated. "Our development and manufacturing processes are adaptive, and we are continuing to invest in new and innovative technology to consistently meet application needs."

Mobility and Mobile Platform Traction Systems

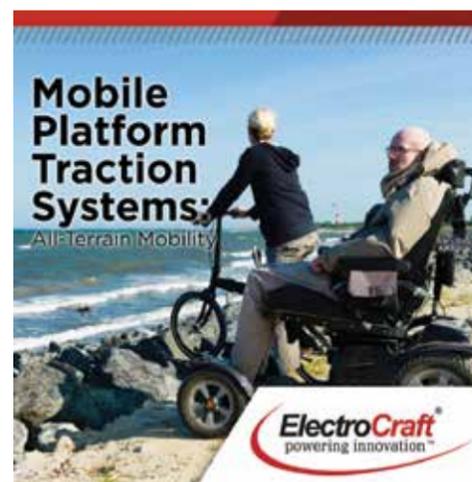
Not just a motor and drive component supplier, ElectroCraft is focused on providing complete market-based solutions. For example, ElectroCraft is undoubtedly at the forefront of innovation in the mobility market, staying ahead in this quickly evolving environment. As the mobile motion market continues to expand, ElectroCraft continues to pioneer motion control for mobile platform traction systems across a range of applications, from surgical robots, mobility chairs and patient transport systems in the medical market to automated guided vehicles and autonomous mobile robots in the industrial and commercial sectors.



motor options can be utilised for more application flexibility. This integrated mobility platform is continuing to evolve, with custom mobility motor manufacturers, such as ElectroCraft, developing the next generation of mobile power platforms.

ElectroCraft's motion control team is world leading for the design and manufacture of customised gearmotors and wheel-drive solutions. Renowned for their smooth and controlled power delivery with high starting torque, they provide outstanding rough-terrain and curb-climbing performance and are available in a wide range of motor and gearing options, from configurable to fully customisable.

The company's MobilePower™ product family has over one million gearmotors in service worldwide. Recently, ElectroCraft expanded the MobilePower™ offering with the MPW (MobilePower Wheel-Drive) series. The MPW52 and MPW86 feature a high torque density brushless DC motor with an integrated single-stage



planetary gearbox and wheel drive assembly. This is an application specific extension to the MobilePower™ range, adding to the breadth of the gearmotor line to include industrial grade traction systems for automated guided vehicles (AGV) and a wide range of autonomous mobile robots (AMR).

In keeping with ElectroCraft's leading innovative developments, this is one of the most powerful compact wheel drives ever created, building not only on the company's gearmotor knowledge base, but also leveraging the high-torque-density that ElectroCraft provides with its RPX Series and other Brushless DC motor products.

"We will be continuing to expand the MPW family," said Rob Kerber, Vice President of Global Sales, Marketing and Product Development. "We are excited to work in this area. Our technology can help improve quality of life, and it is great to see what we have done and are continuing to do going forward."



Motor Drives

ElectroCraft has also been developing its CompletePower™ Plus Family of DC Motor Drives, for the Universal and PRO series. Combined with ElectroCraft CompleteArchitect™ configuration software, the CompletePower™ Plus Universal Drive takes performance, efficiency and flexibility to the next level, using state-of-the-art digital drive technology combined with an intuitive and highly configurable user interface. Now, there are four standard capacities in the model line-up, supporting 12 to 80 VDC motor windings and providing up to 24A continuous and 60A peak output current, while customised versions are also offered to meet large volume OEM requirements.



What's more, for applications requiring more advanced control capabilities, the PRO Series drives incorporate a fully programmable motion controller with built-in networking and are available in a variety of hardware configurations. This includes standalone, PCB mount or as part of an integrated motor drive solution.

"We are very proud of our focus" Rob explained. "We are on the cutting edge of the solutions we offer, constantly innovating and developing what we are doing to meet our customer's needs." Indeed, ElectroCraft has continued to innovate every year and shows no sign of changing this admirable work ethic; their custom solutions and focused design experience are at the core of everything the company does, ensuring ElectroCraft remains responsive to the most pertinent issues their customers face.

If you would like to find out more information on ElectroCraft's full range of products, head to the website or get in touch using the contact details below.

T +1 (844) 338 8114
F +1 (603) 742 9080
sales@electrocraft.com
www.electrocraft.com

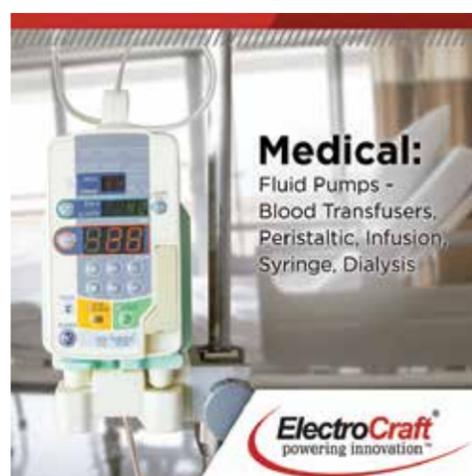


One of ElectroCraft's recent developments is the expansion of its RPX and LRPX BLDC motors. ElectroCraft's Brushless DC Motors (BLDC) are designed for high performance, ideal for applications where high torque and efficiency is required. Thanks to our innovative motor design and integrated planetary gearbox, these brushless motors and gear motors are suitable for a variety of mission critical medical, military, transportation, industrial automation and other applications that traditional BLDC motors and gearboxes cannot accommodate.

Now, ElectroCraft can offer smaller (16mm) but proportionally powerful models of the RPX motors and LRPX gear motors. The RapidPower™ Xtreme (RPX) BLDC Motors are compact and highly controllable motors with class-leading torque per frame size performance, remaining highly energy efficient and ideal for embedded applications.

"We're staying nimble and versatile in everything

Up until recently, modern mobility designs were using permanent magnet DC motors (PMDCs) almost exclusively. Now, BLDC motors, which have several advantages over PMDC motors in mobile power applications, are rising in popularity. What's more, by truly integrating the motor with the gearbox, more



World leader in clean manufacturing

Industry Update is proud to announce that acp Systems AG has been selected as our Industrial Cleaning Company of the Month, for its range of high quality CO₂ snow-jet cleaning systems and fully automated machines.

Established in 1997 by Professor Wolfgang Schmutz, acp Systems is based in Germany, and offers its leading cleaning and automation systems for automotive, medical, and electronics companies across the globe. As a world leader in clean manufacturing, acp Systems' machines are ideal for soldering, dispensing and sensitive robotics to help in handling foils and small parts. What's more, its CO₂ snow-jet cleaning systems are available in manual, semi-automated and fully automated versions, to ensure there is always something to meet its customers' needs.

As well as these unrivalled products, acp Systems also offers expert maintenance and training services, and the installation of new machines. Offering products of only the highest standards and reliability, acp Systems always provides a direct



contact for technical support, helping customers through any difficulties and minimising downtime.

One of the company's notable machines is the JetWorker, the manual and mobile version of acp Systems' CO₂ snow-jet machines. With extremely



compact dimensions, it is particularly suitable for manual part and product cleaning of small to medium quantities, such as in research and development areas. It also features an integrated storage compartment for small CO₂ bottles, helping to maximise mobility and flexibility during daily use. The High Purity version of the JetWorker is a recent addition to the company's offering, and it ensures that there is no dirt or wear and tear on the machine's parts, which could get in the CO₂ snow and cause problems during the cleaning process.

In February 2019, acp Systems merged its two locations to easily combine its processes, improve communication and offer faster reaction times. In the coming years, the company will be working to raise awareness of CO₂ jet cleaning systems, as well as promoting acp Systems as both a supplier of



these machines and an automation expert with core competencies in soldering, dispensing, handling and the application of foils and pliable parts.

The company maintains a busy calendar of trade events throughout the year, regularly attending shows in Germany, Switzerland (EPHJ) and the United States (Battery Show), but mostly in Germany. This includes parts2clean every year which is located in Stuttgart and PaintExpo every second year which is held in Karlsruhe.



If you would like to find out more information on everything acp Systems has to offer, head to the website or get in touch using the contact details below.

T +49 (0)7156 48014 0
info@acp-systems.com
www.acp-systems.com

Leading international lean thinkers



Industry Update is proud to announce that TXM Lean Solutions has been selected as our Business Transformation Company of the Month, for its outstanding lean consultancy services to SMEs across the world.

Established in Melbourne, Australia in 2004, TXM's three directors all come from successful careers in leading major operations in global companies, including Boeing, Ford and PPG, and share a commitment to delivering practical and sustainable operational improvement through the application of lean thinking.

Since its inception, TXM has grown to become a leading international lean consulting company with offices in Australia, China, Europe, Canada, the UK and the US, working on projects in more than 20 countries globally in areas such as manufacturing, resources, services, agriculture, supply chain and distribution.

"One important area for us is helping SMEs overcome their challenges when

complexity begins to limit growth and profitability," explained Lester Troughton, Business Development Manager UK. "Typical problems include low productivity, inefficient workflows, long lead times, high inventory and poor profitability and cash flow. This applies equally in growing manufacturing and distribution businesses as well as in service environments such as equipment hire and maintenance." In these situations, TXM assists clients to streamline their operations with lean manufacturing and lean warehouse methodologies, supply chain optimisation and lean facility layouts. The company also helps to streamline processes for design and back-office functions.

When choosing TXM, clients benefit from the company's practical approach, where consultants get out on the factory floor to coach employees to achieve real, sustainable change. Unlike many other lean consultancies,



(L-R): Founder & Director, Tim McLean and Senior Consultant, Stuart Mitton at the PPMA Show 2019.

TXM does not focus on just training lean methodology and principles.

"Our main focus is on achieving targeted business outcomes which deliver a clear return on investment. Learning about lean is therefore a means to that end. In this way the company gets financial benefits and the workforce learns the lean techniques through practical implementation, relevant to their business. We find this is far more cost effective and leads to a much more sustainable transformation."

In the future, TXM will continue to grow and invest in its UK and European business, where customers are showing a clear need for the company's services. "We expect to grow our UK team in the coming months, and we are broadening our services to provide expertise around the effective use of Industry 4.0 technologies.

"We exhibited at IMHX and PPMA at the NEC in 2019 from which we have already engaged several companies, including A.S.H Display Solutions (pictured right). We find that many companies are being forced into major expenditure (new buildings or machinery) before fully optimising their existing resources. We often increase productivity by more than 30% as well as reducing the manufacturing footprint and stock levels, which releases cash and space within the existing business," Lester concluded.

If your business has 'growing pains' and would

like to find out how TXM can help, contact Lester Troughton, Business Development Manager at TXM Lean Solutions:

T +44 (0)3308 082009
M +44 (0)7842 510188
lester.troughton@txm.com
www.txm.com



Lester Troughton, TXM's Business Development Manager UK engages with Managing Director of A.S.H Display Solutions, David Archer after meeting at the PPMA Show, NEC 2019.

Lights on at Cae Glas Park

Leading manufacturer of low energy light bulbs, Megaman, has had a number of its innovative lighting solutions installed at Cae Glas Park. The new lighting design is part of an important refurbishment project in Oswestry, Shropshire.

The renovation project focused on the refurbishment of public toilets in Cae Glas Park. After years without being renovated, the old toilet block had started to look dated and was showing signs of wear and tear. Oswestry Town Council approached its electrical contractor partner, Highline Electrical for a solution. Following a meeting with its merchant partner, the contractor was recommended Megaman's low-energy lighting solutions.

After being impressed with the company's technologies, the contractor met with Megaman's Project & Specification BDM, Lloyd Robson to discuss the refurbishment plan. During the meeting, Megaman's team drew up a design to replace the lighting units in the toilet.

The new lighting solution emitted the appropriate lux levels, but also helped to significantly reduce energy consumption. What is more, the new system was designed to run off a dedicated solar panel, which was installed at the top of the structure.

After agreeing on the plan, Highline Electrical Ltd met with the

council who signed off Megaman's lighting design. The council were impressed with the planned refurbishment and gave the contractors the greenlight to begin work. In total, the team fitted over 20 new Megaman lighting units. Included in this installation were Megaman's RICO LED Downlights as well as its FONDA Integrated LED Bulkhead. Both ranges have been designed, tested and produced to comply with the necessary environmental legislation and industry codes of practice.

For more information about Megaman, please visit: www.megamanuk.com, like Megaman UK Ltd on Facebook, or follow @MegamanUKLtd on Twitter.



Manufacturing Update

A History Built On Engineering Excellence

At Kingston Engineering, we have been providing engineering excellence to our customers since 1919. Today, as one of the UK's leading specialist manufacturers and producers of specialist Power Screws, we continue to build on a strong foundation of skill and expertise.

Backed by a focus of continued investment over the decades, our global presence as precision engineering specialists is testament to how Kingston Engineering has evolved through the decades, from when we first started out in 1919.

Our Heritage

With a wealth of experience built on the foundations of engineering skill and expertise, Kingston Engineering has shown great flexibility and responsiveness to change across the decades. Through a time frame marked by the end of World War One, through World War Two and the decades that followed, our success has been backed by engineering knowledge and experience.

It is this dedication to advancing our skill level and our ability to constantly evolve and innovate that is characteristic of our story. This still remains the very cornerstone of Kingston Engineering today and the very measure of our success as precision engineering experts.

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www.kingston-engineering.co.uk

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CamdenBoss



CamdenBoss' releases its latest innovative plastic enclosure, the 1500 Series Universal Smart Enclosure. With engineers, installers and end users in mind, this sleek and refined enclosure features two corners at 45° angles, increasing the number of mounting options available and usable external faces.

The unique design allows it to be mounted directly to corners using the well-developed surface mount bracket, even if the walls are misaligned! The flexibility of the multi-purpose plastic enclosure directly targets market demand, bringing a product of ingenuity and premium quality. Moulded in either white, black or grey, the UL94-V0 housing is available with or without vents to suit different applications and industries.

To find out more about the 1500 series enclosure and secure yours today, contact the CamdenBoss sales team on 01638 716101.

Practical aspects of PROFINET, PROFIBUS and IO-Link

Free-to-attend training opportunity – April 28, National Motorcycle Museum, Birmingham

This seminar and exhibition will address the key practical issues arising from the use of digital communications technologies in automated manufacturing and process industry applications, with particular attention to Industry 4.0 and the Industrial Internet of Things (IIoT).

Covering key application areas such as control systems and energy management, it focuses on the practical aspects of using PROFINET, PROFIBUS and IO-Link, from system design and safety & security considerations through to fault-finding and maintenance.

Topics will include:

- ▶ Introduction to PROFINET International and the basics of PROFIBUS & PROFINET
- ▶ PROFINET network design
- ▶ Network gateway technology
- ▶ Industrial network commissioning and testing
- ▶ PROFIBUS and PROFINET device configuration tools
- ▶ Industrial networks safety & security
- ▶ Update on Industry 4.0, IIoT, TSN and APL
- ▶ plus a presentation about and tour of the National Motorcycle Museum.

Live Demonstrations

Supported by an exhibition with demonstrations of actual tools used in configuration and maintenance, the seminar will be of great value to Designers, Production/System Engineers, Instrument Technicians/Engineers and C&I Engineers involved in the design, operation and maintenance of modern automated factories and process plant.

More information and online Registration:

<http://bit.ly/PUK28April>

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Have your underground infrastructure repairs put your workers at risk?



Industry Update is proud to announce that McGrath Environmental Services has been selected as our Infrastructure Solutions Company of the Month, for its revolutionary repair system, Conductorliner, which is set to change the face of international underground infrastructure repair.

"A lot of organisations adopt an 'out of sight, out of mind' approach to underground pipe repair, not realising that the repair systems they're using don't comply with BSI health and safety standards," explained Lydia McGrath, Director.

"Conductorliner, for which we hold the worldwide patent, is a no-dig repair system, minimising disruption and downtime for a company and ensuring repairs are completed quickly and efficiently. It is the world's first 100% dissipative and anti-static repair system which is also EN/BS60079-32



standard compliant, and we've worked with numerous well-known companies and Tier 1 sites to carry out these necessary repairs to underground infrastructure in a safe way.

"We really want to raise awareness of the risks of using traditional repair methods, and the fact that these systems do not conform to British standards. First and foremost, we want to make people safe, and Conductorliner is the only system in the world that can carry out these repairs in a safe and compliant way."

After years of development and research, Conductorliner was released three years ago, informed by years of experience working with above and below ground infrastructure, ranging from comprehensive structural surveys to full repair and maintenance of drainage systems, chambers, sumps, pipes, tanks and associated assets.

This expertise helped the company to identify a major flaw in underground infrastructure, which has been present for decades. This flaw is threatening the personal safety and wellbeing of thousands of workers, as well as increasing the threat of environmental and commercial risk.

The UK national standards body, the BSI, has issued the standard EN/BS60079-32 for electrostatic hazards in potentially explosive atmospheres. Up until now, industry has been making repairs to negate environmental risk, unknowingly introducing an explosion risk in the process.

When pipes are originally laid, they are theoretically perfect, made from a type of dissipative earthenware material which means that if flammable liquids pass down them, any build-up of static is dissipated through the pipe and the threat of explosion is prevented.

However, when repairs are needed, other substances are introduced into the pipe to facilitate the repair. Such materials have always been fibre glass patches, polyester liners and epoxy coating systems. These are insulators, meaning they break the continuity of the static flow and allow it to build up, causing the potential for a spark, explosion and possible chain reaction. Therefore, current repair methods not only introduce the potential for explosion because they're not dissipative, but they also do not conform to the BSI standard EN/BS60079-32.

Thanks to Conductorliner, organisations involved in chemicals, petro-chemicals or anywhere with potentially explosive atmospheres can repair their underground pipes without creating the risk of spark or explosion.

"We are currently working on adapting our design to enable our product to be used in undersea pipes. These come with the challenge of the pipes being subjected to different temperatures, as well as having to be lined vertically, so we're currently working with offshore companies to develop the system in this way," said Lydia.

The company exhibits Conductorliner at a number of trade events each year, including CHEMUK and the Offshore Wind North East Conference and Exhibition.

If you would like to find out more information on Conductorliner, head to the website or get in touch using the contact details below.

Contact
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www.conductorliner.com



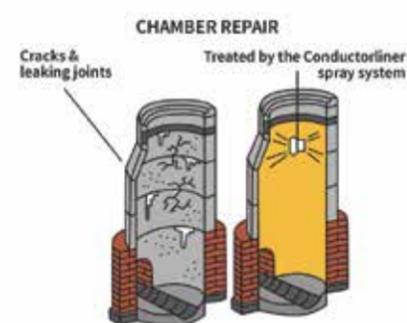
Patching



Lining



Spraying



Animal healthcare expert

At Industry Update, we like to recognise and showcase companies which are offering services and products of only the highest standards. For this reason, we are proud to announce that farmandpet.co.uk has been selected as our Animal Health Company of the Month, for the supply of high quality products to keep animals of every size happy and healthy.



Established in 2014 by John Morgan, farmandpet.co.uk is based in Shropshire with customers spread across the whole of the UK and Ireland.

After a life time working in the agricultural sector, John has a wealth of knowledge to bring to the company. His expertise helps to ensure that farmandpet.co.uk's services are always well informed and their products meet the highest standards.

As an independent online pet pharmacy, farmandpet.co.uk supplies products for all aspects of animal healthcare, serving the commercial and domestic market with products for animals both large and small.

Farmandpet.co.uk knows how important it is to keep your pets healthy, well-groomed and feeling their best, and understands that healthy farm animals mean higher levels of productivity. This is why farmandpet.co.uk does its best to ensure you can find the right products in the right quantities whenever you need them. Be they medicinal, hygienic or food based, farmandpet.co.uk strives to ensure that you can find the right product at the right price.

"As well as our range of mineral and vitamin



supplements and medicinal supplies, we also offer cat and dog food, toys and accessories," John explained. "Because we're a smaller business, we can offer a more personal touch. For our farming customers, we visit them directly and work with them to establish what they need and to find the right solution.

"We offer a comprehensive range of boluses and applicators. Whether you have dairy or suckler cows, beef or growing cattle, calves or sheep we will work with you to find the right product for your needs" John continued.



Farmandpet.co.uk boasts a team of friendly and efficient staff, who are there to help guide you through their huge selection of farm and pet supplies. Whether you are looking for medicine for your cat or your cow, someone is always available during office hours to offer any advice or information you might need.

Farm and Pet attend multiple shows each year, and will be attending the NSA Eastern Region Winter Fair, Melton Mowbray in February 2020, as well as the UK Dairy Day, Telford in September 2020.

If you would like to find out more information on everything Farm and Pet offers, or wish to get in touch for advice on the products you need, head to the website or use the contact details below.

Contact
T 01630 639738
www.farmandpet.co.uk



Production gundrilling of track pins: Case study

Industry: Transportation and defence
Customer product: Military track pins
UNISIG solution: UNI25HD 4-spindle gundrilling machine with automation

William Cook is a UK manufacturer of track running gear for armoured vehicles. William Cook is the main supplier of vehicle tracks to the British Army, in addition to having their products on the majority of armoured fighting vehicles worldwide.

These vehicle tracks include a key component – track pins

– which are designed to endure intense wear and tear from large, fast moving vehicles on uneven terrain.

Track pins consist of a challenging material and have a deep hole throughout the length of the part, which William Cook had previously been sending out to be gundrilled.

A company-wide initiative to further modernise production provided plant systems engineer Brian Birkett with the responsibility of not only bringing the process in-house, but to also educate himself and his team on the foundations of deep hole gun drilling.

Confidence begins with education

The team at William Cook initially brought their application to UNISIG for a machine solution, but according to Brian, UNISIG provided more than just a recommendation. UNISIG's technical team provided in-depth foundation information about the gundrilling process, available tooling, and the right machine to meet their needs.

Brian and UNISIG discussed a heavy duty, multi-spindle gundrilling machine, designed to maximize the production potential of high-feed indexable gundrilling tools. Following this initial proposal, the team visited the Wisconsin, USA



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facility to see the process and machines first hand, meet with the technical team to review the application in detail, and learn what goes into the precision of UNISIG machines.

"UNISIG's knowledge of how our application would benefit from indexable gundrilling was influential in our decision to go with them," he stated. "They clearly explained what we needed to know, addressed all the questions we had, and brought confidence in what ultimately was our solution."

Brian went on to explain that the combination of process, plus procedure, plus expertise contributed to their first-class experience with UNISIG, throughout the entire process. He praised the team for immediately being able to recognise and understand the demands of the application, and do a thorough job of presenting a solution – one which has lived up to expectations.

Intuitive and powerful

The UNI-25HD machine at William Cook is currently running full production with three products, and plans to expand their part line-up. The machine is surpassing William Cook's expectations for required cycle time, with the high gundrill feed rates and multiple spindles, made possible with matched power and torque requirements on the machine. Loading automation is seamlessly integrated to maintain a steady production pace with less operator effort. Brian believes that they have a solution that is perfectly aligned to their part and performance requirements.

"The machines are perfectly paced to keep up with production. The machines do exactly what was promised. UNISIG knows what they are talking about, and our expectations are exceeded."

Brian also praised the ease of operation, with UNISIG's standard PLC interface and a thorough training session, allowing the team to feel completely confident with deep hole drilling. The straightforward operation allows them to set up their program and let the machine do the work, while operators monitor the process and look for improvements. "It's such a benefit. It's so easy to learn," he commented. Overall, the initial payback from the investment is expected to take place within 2 to 3 years, according to the team, and the long-term impact will be substantial.

Support feels close to home

Having close support post-installation was another priority to William Cook. Partnering with an international supplier can sometimes create distance, but this was not the case with UNISIG. Technical support teams are quickly able to access the machine and the operating staff to diagnose and troubleshoot, even when remote. The technical support from early on in the sales process, to responsiveness after installation has set UNISIG apart from others.

"UNISIG's service team responds quickly to take care of any issues, just as if we were next door. Support feels close to home."

Brian's confidence with the UNISIG machine and partnership has influenced William Cook's long-term reliable production, and a modern solution that aligns with the future of their company.

Further information on all machines of the UNI series and the complete UNISIG machine program is available at: www.unisig.com or follow the company on LinkedIn and Twitter (@UNISIG).



New friction joints



The latest friction joints from FATH Components are designed for use in a variety of benchtop assembly applications.

Three new models are available ex-stock, with six different versions of each to choose from. The 140L and 180L friction joints offer operating torques from 0.5nm, through 3, 6, 9, 12 and 15nm, allowing users plenty of choice to obtain an optimum match between operating arm and the work in hand. A larger, heavier duty 180H friction joint is available for users with bigger masses to move.

The operating arm can pivot freely in the vertical plane without fear of it dropping – even with repeated, high cycle use.

Using standard FATH stock swivel arms and associated components, the new friction joints can be mounted direct onto profiles lengthways, crossways or end-on.

T 01252 346610

More new fume extraction systems meeting latest HSE welding requirements

New from Wilkinson Star, one of the UK's largest independent distributors of Welding and Industrial Equipment, is the F-Tech Fume technology product range of high vacuum fume extraction systems and welding torches.



Welders and operatives can be exposed to welding fumes, grinding dust and oil mist in the working environment. It is therefore obligatory for employers to create safe and healthy working conditions for operatives by reducing these health risks.

The F-Tech Armour is a high vacuum dust extraction system offering a mobile solution to extract dust from manual welding and grinding processes. The Armour unit features a high performance German motor and a choice of 3 mtr suction Armoflex or Armotech cantilever arm and a user friendly digital panel with hour meter, clogged filter alarm. This unit offers E12 99.5% filter efficiency and comes with a 5 year warranty on both 110V and 230V models.

The F-Tech Pocket is a portable extraction unit designed to extract and filter fumes from welding processes, micro dust, vapours and odours. At only 20kg, it is a robust unit with a practical long handle perfect for site work and those difficult to reach areas. This unit has a 2mtr hose fitted with a plastic extraction nozzle. The Pocket also has a filter efficiency of E12 99.5% and comes with a 2 year warranty.

Additional features include a hourmeter and it is available in 110 and 230 Volt.

Wilkinson Star are the sole importer of AER Service equipment, manufactured in Italy for the UK and Ireland

The F-Tech range is available through Wilkinson Star's extensive distributor network. For further details please contact Wilkinson Star on 0161 728 7900 or visit www.wilkinsonstar247.com.

The changing face of additive manufacturing

For many, 3D printing, or additive manufacturing, conjures up images of prototypes made from heated plastics – often with a less than pleasing finish. But as the technology evolves so does the range of applications where 3D printed parts can prove to be a more effective option when compared to traditional manufacturing methods.

Finding new materials that are lower in cost, that can build more quickly and in thicker layers is key for additive manufacturing being adopted as a production method.

For many customers, the objective is to reduce the cost. But the main reason to utilise additive manufacturing is



the overall benefits that you can get from the process. It is not going to replace other manufacturing processes,

but it is another tool in the toolbox to enable parts to be built that are otherwise too complex to make in other ways. It is also a way to combine multiple parts in to one and save on material by only designing what you need rather than the excess that can be required for subtractive manufacturing.

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Vertical & Horizontal Stand up Pouch Machines



Gainsborough Engineering Company has been chosen by Industry Update as our Packaging Machinery Company of the Month.

Located in Gainsborough, Lincolnshire, Gainsborough Engineering Company was founded over 50 years ago, and is now one of the UK's leading automatic packaging machinery manufacturers.

GHP 250 ~ Horizontal Stand up Pouch Machine

The stand-up pouch machine GHP 250 is equipped with the latest technology, electronic and pneumatic combined with a construction objective of simple reliable mechanics, therefore offering flexibility and reliability with low operating costs.

The new and innovative GHP 250 is a fully automated machine which allows for fast, easy, on-the-go adjustments. This means less downtime and more production, achieved from having the latest in PLC technology allowing for higher efficiency, quick pouch size change over, more run time and fewer operators. With a simple tool change the pouch machine can run a range of sachets 'without a back-seal' ideal for single portion sauces sachets.

Adrian Shenton, Sales Director, explains the advantages and benefits of this state-of-the-art machine: "The modern design of the GHP 250 makes it possible to have double dosing systems. The machine can be set up to accommodate a wide range of stand-up pouch sizes. With the focus on tight seals, a must for modern packaging, this allows for an almost unlimited variety of products which can be packed by the machine, including granules, solids, liquids, powders, gels, pastes and many more."

"A key advantage of the pouch being formed from the reel is

a significant cost reduction over pre-made pouches; and this saving is ongoing throughout the lifespan of the machine."

The primary benefits of the GHP 250 dedicated horizontal pouch machine are:

- ▼ Pouch formed from the reel resulting in minimum saving of 40% over pre-made pouches
- ▼ Additional options available such as Zip Closure, Euroslot, Carrier Handle on larger pouches, Gas Flush, etc.
- ▼ Incorporated Filling Heads such as Powder Fillers, Multihead Weigher, Liquid Pumps
- ▼ Suitable for all types of products
- ▼ Latest PLC Design
- ▼ Made in Britain ~ Proud to be British.

In addition to the Stand up Pouch machines, Gainsborough Engineering Company also manufacture a range of



Intermittent and High Speed Continuous Vertical Form Fill & Seal machines, including Quad Seal.

GV2K range ~ Vertical Form Fill Seal Intermittent Bagger

This range of Popular Bagging machines offer the latest in design and control, all models in the GV2K Range are manufactured from Stainless Steel and offer either Standard or High-Care finish. The compact footprint makes this one of the smallest machines available whilst offering all the Additional Options available on the full range of Vertical Bagging Machines.

GV2K6 ~ Vertical Form Fill Seal Continuous Motion Bagger

Another fairly newcomer to the range is the GV2K6 a Continuous Motion vertical form fill seal bagger that can operate at upwards of 100ppm.

The GV2K6 is ideal for high speed applications such as snacks and nuts, confectionery products, rice and powder as well as Vegetable Packing i.e. Potatoes, Sprouts, Pea's & corn and other free flowing products.

For more information please contact Gainsborough Engineering Company using the details below:

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NSK Molded-Oil bearings extend service life in food plant conveyor application

A vegetable processing plant in Germany is enjoying significant benefits following the adoption of Molded-Oil bearings from NSK. Principally, the move has helped the company extend the service life of bearings on a critical conveyor from two weeks, to 40, saving considerable maintenance costs and downtime in the process.

Keen to resolve the question of why its previous bearings were failing at such an unusually fast rate, and eliminate the associated cost and time issues, the company asked NSK to investigate.

During the inspection, NSK experts soon determined the cause. Due to the



rigorous hygiene standards demanded by food industry regulations, the system was cleaned thoroughly on a regular basis. However, it was found that the cleaning process prompted considerable quantities of water to penetrate the bearings and, as a result, wash away the lubricating grease.

To help combat the challenges presented by the frequently required wash cycles, NSK recommended the use of its sealed Molded-Oil bearings.

A special tribology concept (tribology is the science of wear, friction and lubrication) has been implemented for Molded-Oil bearings. For instance, the bearings are equipped with NSK's proprietary oil-impregnated material, which comprises lubricating oil and an oil-related polyolefin resin. This material releases the lubricant, which cannot be washed out due to its consistency, continuously over a long period. At the same time, the carrier material prevents water or solid impurities from penetrating the bearing.

By adopting the bearings, service life at the plant has increased from two weeks to more than nine months. This highly successful outcome once again confirmed NSK's 'rule of thumb' that Molded-Oil bearings achieve at least twice the service life of conventional grease-lubricated bearings in water and dust-contaminated environments. In this particular case, service life increased by a factor of 40.

The plant is also experiencing many other benefits. For instance, the operating environment remains clean because no grease escapes and no oil needs to be refilled. Molded-Oil bearings are therefore ideally suited to food industry applications, where thorough and frequent cleaning processes are essential. The use of stainless steel for the bearing components also contributes to this suitability.

NSK supplied the bearings for the vegetable processing plant with highly



effective contact seals (DDU) on both sides for even higher levels of protection. This option is available for the standard range of Molded-Oil ball bearings. Molded-Oil is also available on spherical roller bearings and tapered roller bearings.

The special features of Molded-Oil bearings and other bearing series developed by NSK for applications in food processing are described in a new brochure, which is available as an e-book at www.nsk-literature.com.

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Offering the very latest electronic production equipment



Industry Update is proud to announce that Zen Production Equipment Ltd has been chosen to receive our Outstanding Achievement award, for its continued dedication to providing market-leading electronic production equipment for the electronics manufacturing industry.

Zen Production Equipment Ltd is dedicated to supplying companies with the world's most appropriate production equipment for their application. Offering a dedicated service, the company is always looking to provide customers with the best quality products and after sales support possible.



cleaning, stencil cleaning, pick and place machines, dispensing machines, routing machines, and many others. We've made sure that we've diversified into other markets so that we can offer a comprehensive product range for our clients."

Indeed, Zen Production Equipment Ltd is constantly updating its product portfolio with equipment sourced from the industry's leading suppliers. What's more, the company's staff members have years of manufacturing experience, so fully understand the importance of the repairs and maintenance of equipment.

"One of our most recent suppliers is Essemtec AG, who offers a range of pick and place systems, dispensing systems and component storage solutions. One of their machines can jet dispense solder paste at sub 300 micron dots," explained Peter.

Based in Switzerland, Essemtec AG offers smart and highly flexible SMT Solutions. These comprise of the Fox and Puma Pick & Place systems which offer multiple heads and dispensing on a single platform. Both machines can be used as standalone systems or be configured as inline solutions, and the Spider and Tarantula dispensing systems offer a range of nozzle technologies.

All the systems use mineral cast beds for vibration free production with no warping caused by thermal drift. What's more, linear motors are used throughout to offer the highest accuracy and no maintenance, all of which is complemented by one of the most comprehensive software packages available. To

With an excellent management team boasting over 30 years of experience in all the key aspects of electronic manufacturing production equipment, Zen Production Equipment Ltd has travelled to a wide range of countries in order to find the highest quality products in each sector of electronic manufacturing production engineering. Without a doubt, by purchasing from Zen Production Equipment Ltd, you can be assured that your product will be unrivalled for value.

Established in 2006, Zen Production Equipment Ltd has fostered an enviable reputation over the last 14 years, and has evolved significantly since its initial operations. "Originally, the company was focused on soldering technology," explained Peter Clarke, Managing Director. "Now, we also offer PCB



complete Essemtec's range is the Cubus and Cubus Large component towers, which offer flexible storage of SMD reels of all sizes, trays, boxes and more. These can reduce logistic problems by 95%, offering full interface to most production systems and all major ERP and material management.

"We've also taken on Hoelzer, meaning we can now offer high quality laser marking machines," said Peter. Hoelzer Systemtechnik offers equipment for marking, both laser and ink jet, and depanelling using spindle, saw or laser; this is complemented by easy to use software for each machine. Indeed, with over 30 years of experience, Hoelzer has an outstanding reputation in the industry, making it a valuable addition to Zen Production Equipment Ltd's product range.



"We have the best equipment worldwide," Peter continued. "One of our suppliers, Heller, is the world leader in Reflow Oven Technology." Indeed, Heller uses the most advanced production systems around, offering consistent performance for high mix/high volume requirements, while keeping floor space to a minimum and minimising preventative maintenance costs. We've sold into the majority of large subcontract manufacturers, and we pride ourselves on not selling something simply for short-term return. We want to build partnerships with our customers; it's all about the longevity of our relationships with them," Peter explained.

"We'll be attending the Southern Manufacturing and Electronics show on 11-13 February 2020 at Farnborough International Exhibition and Conference Centre, on stand N70. We'll be exhibiting the Essemtec Fox Pick & Place system with dispensing capability, to demonstrate the solder paste jetting at sub 300 micron dots. There'll also be a batch selective soldering machine from Inertec, and a small laser marking machine and benchtop routing machine from Hoelzer. Visitors will be able to see the pick and place and the laser marking machines working first-hand, and there will also be representatives from the companies so people can find out more information."



Clearly, Zen Production Equipment Ltd is dedicated to sourcing only the highest quality and most up to date machines for its customers, a commitment which has ensured the company's outstanding achievements since its establishment and which puts it in good stead to continue this success in the coming years.

If you would like to find out more information on everything Zen Production Equipment Ltd has to offer, head to the website or get in touch using the contact details below.

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Steve Wood-Antill, Technical Director and Peter Clarke, Managing Director of Zen Production Equipment Ltd, accept the Outstanding Achievement Award from our Journalist