Industry Update has selected Waikato Milking Systems as one of our top exhibitors at this year’s UK Dairy Day. Waikato Milking Systems has a new range of Automatic Cup Removers that can help automate your parlour, reduce labour and future-proof your dairy operation.

The ECR-S and ECR Plus are high performing ACR/Detachers that work at the heart of your parlour’s milking automation system. Both can be easily fitted into your existing parlour, breathing new life into your old milking system, or be options for any new parlour installation.

The ECR-S is suitable for all milking machines. In a rotary parlour it can control the BailGates to retain cows for alerts or longer milking times. It can also control SmartSPRAY, for automated teat spraying of your cows. The ECR Plus has all the features of the ECR-S plus more, including Plug ‘n’ Play technology which allows the operator to add milking automation options incrementally, when the budget suits.

You can add the SmartID-TECT Pulsator to measure the conductivity of each quarter; Electronic Milk Meters for flow rate and volume; BailGate control for cow retention or Bail Display for status updates and alerts.

ECR Plus is designed to connect with our NaviGate Dairy Management System, which can display information collected from your milking automation options, helping you make better decisions for your herd.

Contact: Lawrence Gullery
T +647282 1391
accounts@waikatomilking.com
www.waikatomilking.com
STAND OUT FROM THE CROWD WITH ENGEL ‘SAFETY’

No matter what the job, if it involves working out in the open, day or night or whatever the weather, it’s important to be easily seen. Engel Workwear offers a comprehensive collection of water and wind resistant, high-visibility, protective outer-clothing which caters for almost every work situation helping wearers to keep both safe and comfortable whatever the circumstances.

Made from fluorescent Polyester or Polyester and cotton mix suitable for industrial laundering and all fully complying with European and International safety and protection standards, the Engel ‘SAFETY’ range consists of jackets, trousers, bib-overalls, boiler suits, safety vests, sweat shirts and for the warmer months, T-shirts and shorts. But to be prepared for colder snaps, especially whilst working during the night, the COMBINE shell jackets with an inner zip-up layer give added warmth. Available in all sizes with many of the items specifically designed to be especially comfortable for women, the Engel Workwear ‘SAFETY’ collection is available predominantly in fluorescent orange or yellow with ‘LOXY’ reflector bands for maximum visibility.

For more details, visit: www.engel.eu/en or contact Gareth Bladen at: gbl@f-engel.com or call +44 (0)7759 520034.

H AINBUCH
WORKING TECHNOLOGY

Ultimate washroom style in three easy steps

Ultimate washroom style in three easy steps

Dudley Industries launches a new Modular ‘Behind the Mirror’ hand hygiene solution to their global washroom offering. Modulo is a new cabinet system that provides a flexible and easy to install solution for stylish washrooms. With space so often at a premium in washrooms careful consideration must be given to every detail. Modulo is a convenient solution that provides a choice of hand washing and drying options housed in a cabinet cleverly concealed behind a mirror.

Specified in 3 simple steps

1. Choose the cabinet size
2. Select the dispenser combination
3. Choose the door type to complete the selection

Unlike traditional cabinets the Modulo system provides a range of dispenser locations so that each one can be ideally positioned exactly where you need it. The simplicity of installation makes the mounting of a Modulo cabinet easy and by choosing a combination of the manual and battery operated dispensers removes the need to connect to mains power making it suitable for all locations and washrooms.

The cabinets are available in widths of 600mm and 1,200mm and customers can choose their dispenser combination from:

- Soap Dispenser
- Paper Towel Dispenser
- The new AutoCut Paper Towel Dispenser
- Hand Dyer

Cabinet doors are available as a traditional mirror finish but for the more inquisitive an innovative tinted glass option is available which stylishly reveals the dispensers through the glass.

Contact T +44 (0)1253 738331
www.dudleyindustries.com www.twitter.com/dudley_ind

Denso Paste & 80mm Tape control Brunel Bridge corrosion

Isambard Kingdom Brunel’s Swing Bridge was constructed of riveted wrought iron plates in 1849 to provide a crossing over the entrance lock for growing vehicular activity in Bristol Docks. It is a rare survivor of Brunel’s Bristol work and predates the Clifton Suspension Bridge.

To hold back corrosion in the early days, linseed oil and resin based paint coatings were regularly applied, but after 50 years of neglect the Grade 2 Listed structure has rusted seriously. In the Bridge’s one hundred and seventieth year, the volunteers of the Avon Industrial Buildings Trust have turned to Winn & Coales (Denso) Ltd for a well tried protective system to help preserve important parts for the future. The structure weighs almost 70 tonnes and is supported by a turntable ring running on just four wheels.

Denso paste has been applied to the underside of the ancient bridge’s 4m dia forged iron ring to seal against water entering the deep rail-pits. Then the 3mm thick aluminium packers were wrapped with Denso Tape, bedded on to the new 20mm thick steel ring.

Densp paste has been applied to the underside of the ancient bridge’s 4m dia forged iron ring to seal against water entering the deep rail-pits. Then the 3mm thick aluminium packers were wrapped with Denso Tape, bedded on to the new 20mm thick steel ring.

This was then jackied up to bed on the underside of the old heavily-corroded ring to provide a new track for the bridge to run on. Geoff Walshe, the Avon Industrial Buildings Trust’s project manager, said, “we chose Denso products because we knew of their proven performance, and believed they will serve the Bridge well for years to come.”

T: 020 8570 7511
mail@denso.net
www.denso.net

MONITORING PUMPS ISN’T A BIG DEAL.
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The best way to be efficient is knowing what you can improve. Smart pump solutions by KSB will help you optimize your systems reliably and efficiently. Learn more. www.ksb.co.uk - 01509 231872

Our technology. Your success. Pumps • Valves • Service
Dublin’s new Central Plaza conversion uses Denso protection

The old Central Bank Building in Dame Street, Dublin, is currently being redeveloped and will reopen as the Central Plaza consisting of offices, conference space, shops and restaurants. Winn & Coales (Denso) Ltd is supplying protection coatings for major structural sections and also an outer wrap prior to fire protection.

The building was originally constructed in the 1970s and the design was based on suspending each floor from two concrete core tower pillars. Each floor level was then constructed at ground level and hoisted into place and then supported by Macalloy bars. The bars were protected at the time with petroleumum tape.

DBFL Structural Engineers, in discussion with Winn & Coales, decided to remove the existing wrap and apply Denso Tape to 2,500m of 40mm Macalloy bars, thus providing long term corrosion protection. Denso Self-Applied PVC was then used as an outer wrap before fire protection and cladding was applied.

SeaShield 80 protects marine-side rising main

On a recent Yorkshire Water contract, JN Bentley Ltd of Skipton was faced with the complexity of replacing approximately 25m of a 350mm diameter rising main pipe at Whitby, Yorkshire, which was situated within a shaft.

JN Bentley therefore employed PMP Utilities Ltd of Burnley to install the rising main after using Winn & Coales (Denso) Ltd’s SeaShield 80 system to provide protection from the sea water. To make the installation easier, the SeaShield 80 was applied to the barrel lengths of the pipe prior to lifting the 25m long pipe into place. PMP Utilities then applied the system to the bolted flanges in situ.

SeaShield 80 System comprised: Denso S105 Paste, Denso Marine Piling Tape, Densoclad Tape and Denso SeaShield Smart Band. Denso Mastic was also used to profile the joints.

Digital Edge Subsea releasing all new DVR model now with 4K

Digital Edge Subsea’s EdgeDVR-1HD-4SD is the company’s top of the range model for digital video recording. Primarily for use in the offshore oil and gas subsea and windfarm markets, the model is generally used for daily ROV operations, both eyeball and work class or diving.

In 2019, the company has been developing the next generation of the model, due for release soon. The new Version 5 software and hardware will maintain the original mandate of being easy and simple to use with unbeatable reliability, but will now have three levels: EdgeLite, Edge, and EdgePro.

Version 5 of the EdgeDVR will provide the same capabilities as the current Version 4 but with the added advantage of being able to record four channels of HD simultaneously.

In regards to hardware, Version 5 will have three main types: Standard Definition, High Definition and Digital Edge Subsea’s first ever 4K system. This addition of a 4K (UHD) model is a reflection of the latest technology now being used on some of the latest ROV and diving systems worldwide.

Digital Edge Subsea will also offer a laptop version, with a total storage capacity of 3TB and an external 2TB SSD drive, which stores the survey data. The Windows 10 operating system is stored on a 2 x solid state hard drive (Raid) for increased speed and reliability.

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Problem solved: Discontinued passives & long lead times with current components

To help engineers and buyers in the Electronic Components Industry with end-of-life (EOL) issues and today’s long lead times for current products, BGC Distribution has announced the availability of direct alternatives to RO3003, COXOFIT, Vихay and Sumilis lines, with short lead times of 5-8 weeks, where most manufacturers are currently working on 16-30 weeks.

BGC’s range of EOL replacements and pin-for-pin replacements for current passives include: shielded power inductors, multi-layer ceramic chip inductors, radial lead coils, open wire wound chip inductors and thin-film chip inductors.

Typically, large component manufacturers discontinue product lines after 1-3 years. This can have a potentially disastrous impact on customers whose products have longer expected lifetime, eg. aerospace, medical, surveillance or defence industry equipment. The availability of BGC’s component replacements will far exceed 10 years.

BGC Distribution’s EOL component supplies will be a lifetime to RO3003 engineers and buyers, where component lines have been designed into their product lines. With a stock of 150+ passive components and franchised distribution agreements with quality alternative component manufacturers, BGC can provide high quality, pin-for-pin direct replacement or alternatives. If the required components are not in stock, then BGC will track down and source matching alternatives, ensuring that EOL issues will not hinder customers’ projects.

For a step by step guide on choosing your EOL components, visit: www.bgc-distribution.com/eol_ju

You can also call our sales team on 01638 716101 who can guide you how you want your EOL to function! Alternatively, US customers can call T: +1 800 424 4573 Ext12, or +1 516 386 7000 Ext12.

For stock availability, pricing or free samples please contact BGC’s sales office:
T 01638 716101
E sales@bgc.co.uk

More about Spectrum can be found at: www.spectrum-instrumentation.com

New, OLED display with USB, SPI, I²C and PCAP touch

MS Electronics Ltd introduced two new intelligent graphic OLED display with PCAP touch, USB port, SPI and I²C interface. Two screen sizes are available: EA PLUGL128-6.2.9” diagonal 128x64 and EA PLUGS102-6.1.7” diagonal 102x64 pixel.

The display is easily programmed with powerful graphic commands and 6 integrated character sets. New fonts can be added with the free development software. Fonts can be scaled, rotated and accurately positioned. Fonts, 256 images, animations or macros can be saved on board the display. Text can be rotated for the display to be used in landscape or portrait mode.

The OLED display technology is extremely fast, offers high contrast on a pure black background with nearly 180° wide viewing angle. Supply from the USB port or with a 3.3V to 5V digital I/O, 1 analogue output and 2 analogue inputs are available for the application. Includes speaker for audio feedback. A version with a 12-pin screw connector for easy connection of sensors and I/O is also available.

Shield clamp according to PROFINET installation guidelines

icotek introduces new shield clamp LFZ-M | MSKL

The new LFZ-M from icotek has a double strain relief and complies with the PROFINET installation guidelines.

Using icotek shield clamps, the strain relief is carried out via the cable jacket and not via the sensitive and exposed shield braid. The PROFINET cable is fixed before and after the shielding to ensure protection against bending and kinking. This is especially important when the cable is exposed to movement.

Constant pressure on the cable screen eliminates the need to realIGN the spring pressure. The shield clamp is vibration-proof and maintenance-free. The LFZ-M | MSKL is offered with a M4 connection. For mounting purposes, the screws connected to the ground potential are used.

Due to their special geometry, the clamping areas of the shield clamp are very large. With a total diameter of 5.1mm, the LFZ-M | MSKL requires very little space and can be used flexibly. The slim and space-saving design is retained even when fully equipped. The width and height are comparatively low (eg. LFZ-M | MSKL 3-12 with 12mm cable shield inserted: width 26.25mm).

The LFZ-M is available in screen diameters of 3-12 or 8-18mm.

Further mounting variants are available.

icotek barrier free tool is available now. Free samples are available directly from the manufacturer.

www.icotek.com/en/profinet

CamdenBoss’ CNMB modular DIN Rail enclosure: Create your CNMB, your way

The CNMB DIN Rail enclosure range provides a selection of modular housings which are available in eight lengths. The combination of modular simplicity and adaptability enables this enclosure to succeed in almost any application. Ideal for OEMs designing electronics for applications such as drive and controls, home automation, HVAC, smart factory controls and energy management.

Utilising a wealth of features and benefits, the CNMB’s modular design and snap-fit fixings allows engineers to choose pieces to suit their exact requirements, this could be by selecting a varied version for air flow, with a 51mm pitched terminal guide that is clear; it’s up to you how you want your CNMB to function! Alternatively, you can select from a number of pre-kiotted options.

For a step by step guide on choosing your CNMB enclosure, visit: www.camdenboss.com/cnmb_JU

You can also call our sales team on 01638 715101 who are on hand to provide you with advice on choosing the perfect CNMB for your project.

Spectrum’s first 48-channel AWGs solve the cost problem of signal generators

For engineers and scientists that need to simultaneously generate multiple electronic test signals, Spectrum Instrumentation’s latest line of arbitrary waveform generators (AWG) provide 24 to 48 synchronous channels in a single rack unit. The AWGs can be configured for multi-channel arbitration testing and for the entire system. A typical configuration is 2/8-channels (ie. E-2000™, MPO, MIL-38999, etc).

The XB2 ferrule has a compact form-factor bodies (ie. E-2000™, MPO, MIL-38999, etc). The XB2 ferrule has a compact form-factor for multi-channel automated testing applications, ensuring that the XB2 ferrule does not necessarily mean end of supply or support.

BGC Distribution offers drop-in alternatives for most manufacturers including Toko, Sumilis, Moxtra, Diamond, Cooper, Beaus, Vихay, Worth, etc.

For stock availability, pricing or free samples please contact BGC’s sales office:
T 01638 716101
E sales@bgc.co.uk

Spectrum’s new DN6x series of generators/METROX instruments are available with 24, 33, 40 or 48 fully synchronous channels, complementing the recently introduced and smaller DN6x products (that offer from 4 to 16 channels). Such a high-channel count sets a new standard for AWGs (most conventional products only offer 1, 2 or 4 channels), while also delivering a very advantageous price per channel.

Furthermore, setting up, programming and controlling a single instrument is much simpler than trying to operate a number of individual AWG products.

www.spectrum-instrumentation.com

More about Spectrum can be found at: www.spectrum-instrumentation.com

Revolutionary maintenance-free fibre optic interconnects

Diamond SA is excited to announce our new Expanded Beam (EB) lensed fibre interconnect series to further strengthen our wide range of existing products. This revolutionary lensed fibre technology ensures reliable and maintenance-free optical connections with insensitivity to dirt & debris.

The fast-growing deployment of optical fibre in industrial, military, military and transportation applications are leading to the increasing use of optical connectors providing low insertion loss, ease-of-use and, more important, serviceability. Connector contaminants are the leading cause of power loss and signal degradation, often requiring the continuous need for cleaning.

For this reason, Diamond has developed a modular, single-mode lensed ferrule that is certain to minimize or combat these factors. The XB2 ferrule has a compact form-factor that is designed to fit our standard connector hoods (ie. E-2000™, MPO, MIL-38999, etc).

The use of exceedingly precise components and unique assembly techniques results in a highly repeatable, low insertion loss ferrule that opens new perspectives in the context of optical connections, where mating-cycles, dust insensitivity, reliability and low losses are required.

Diamond will be presenting the new IB series at the Photonics West 2020 exhibition in San Francisco.

T +44 58 307 45 45
www.diamond-fs.com
ElectroCraft: Powering innovation

ElectroCraft is owned by DMI Technology and has been manufacturing electric motor products for over 100 years, bringing unrivalled experience and expertise to the industry. With its headquarters in Stratham, New Hampshire, ElectroCraft operates internationally, with manufacturing facilities in North America, China and the UK.

Committed to adding value to an extensive range of markets, ElectroCraft works with OEM customers who are unsatisfied with having to design around inflexible off-the-shelf products, using unparalleled technical knowledge to manufacture first-class products. Its customisable product families provide a design experience which results in motor and motion systems that deliver superior reliability and performance at the lowest possible cost. “ElectroCraft was formed to build custom motion solutions for our OEM customers,” explained Scott Szemore, Director of Commercial Marketing. “This provides innovation for a better and safer life for current and future generations.”

“We service a wide range of markets,” said Scott. “Some of our more interesting, challenging and successful motion control projects have recently been in the areas of medical and scientific equipment, HVAC applications, mobility and mobile platforms, agriculture, industrial machinery, and transportation markets.” Indeed, for the medical sector, ElectroCraft offers mobility solutions including motorised wheelchairs and sophisticated automated medical equipment, ensuring every solution is designed for each specific application.

The company’s extensive product range features application-engineered specialty fractional-horsepower motor and motion control products, providing power critical components for some of the world’s most innovative products in an extensive range of applications. With a firm foundation of experience and comprehensive knowledge, ElectroCraft provides advanced precision solutions with the highest reliability. Indeed, these accolades ensure the company is well trusted by both the largest brands and the newest cutting edge companies, cementing its status as an industry leader.

We also asked Scott about some of ElectroCraft’s most notable products. “The RPX and LRPX BLDC motor and gearmotor line-up is formidable and innovative! It has high torque density and a small form factor. This means it is small and powerful. The geared LRPX versions also feature a unique integrated gearbox that allow for maximum torque from a BLDC motor at peak efficiency.”

Indeed, the RPX range includes highly dynamic and controllable very small frame metric motors. It features an advanced 8-pole encapsulated core, and this compact DC motor also offers high torque density at a highly affordable price. The range consists of 12V, 24V and 48V versions, and is fully customisable, like all of ElectroCraft’s products. Remaining highly versatile and energy efficient, the motor is ideal for embedded applications, and all versions include hall sensor feedback and can be configured with an optional encoder.

The LRPX range consists of exquisitely efficient small form factor BLDC motors, offering peak operating efficiency at traditional RPM ranges and allowing custom integration with a planetary gearbox. It offers high torque from a small form factor, with low power consumption and peak performance at a lower RPM to allow for quiet operation.

Indeed, traditional BLDC motors have peak performance at very high RPMs, speeds which are too high to make efficient use of a gearbox. The LRPX integrates the RPX series motor with a custom planetary gearbox, resulting in a small form factor BLDC motor than can produce high torque at a low RPM.

“The ElectroCraft MobilePower™ products are also an exciting area of growth as they are the motion foundation for a wide range of mobility solutions including AGV, AMR, Medical Mobility solutions, and more.” Certainly, ElectroCraft’s MobilePower™ gearmotors offer an integrated design, providing increased performance and reliability at an affordable price. These are also entirely customisable to meet any specific application requirements.

“We continue to get better as we remember that we are in business to power innovation and give customers control over their design, we find ourselves better equipped to provide solutions needed in emerging markets. As we look to the future, we will continue to invest in design, manufacturing, and continual operational improvement.”

Undoubtedly, ElectroCraft has an admirable array of products, with manufacturing capabilities which are fortified by over 100 years of experience and highly skilled staff. This impressive offering will only serve to solidify the company’s already enviable reputation in the industry. If you would like to find out more information on ElectroCraft’s full range of products and services, head to the website or get in touch using the contact details below.

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Industry Update is sponsored by Curtiss-Wright Surface Technologies – see them on page 24
New range of stations ensures PPE is easily accessible

Personal protective equipment (PPE) ensures the safety of employees and visitors in a working environment and is a requirement by law. Employers must make sure that PPE is fit for purpose with inspections before use. It is maintained and stored properly, and it is used correctly by employees and visitors.

SafetyGradians has created a new range of low-cost, high-quality PPE stations, ideal for use in offices, warehouses and construction sites. The range has been designed with the most popular PPE products in mind, such as helmets, goggles and hi-vis workwear. Simple to install on walls or temporary fencing, the stations make PPE clearly visible and allow easy hanging after use.

PPE Safety and Hi Vis stations feature a write-on panel allowing ownership of each hook. There is also a visitor's station available, making it easy for visitors to see at a glance exactly what PPE is required in any given area, thus limiting risk and time spent by other employees finding the correct items.

To find out more and place your order today, visit: www.SafetySigns4Less.co.uk or call 0800 1699 147.

Health, Safety & Security Update

Robotic piece-picking solution

Element Logic launched a robotic piece-picking solution at MRO 2019.

The robotic piece-picking solution combines award-winning technology from RightHand Robotics with Element Logic software and automation. The solution integrates with any warehouse management software or enterprise resource planning system, helping customers to decrease operational costs and boost overall profit.

RightHand Robotics technology excels at the 3Rs of robotic piece-picking: range, rate, and reliability. The technology is able to pick and place a wide range of items, fulfilling orders at high speeds, while ensuring customers consistently receive what they ordered.

KNEE AND BODY PROTECTION FROM REDBACKS CUSHIONING

Redbacks Cushioning Limited, developers of the award winning, ‘leaf-spring’ cushioning technology, offers a range of products to help protect the knees and body from damage caused by kneeling.

The Redbacks Pocket Kneepads, specifically designed to fit work trousers, feature a flexible leaf-spring held within a thermo-plastic honeycomb matrix which allows foam or gel to achieve a high compression rate and 100% recyclable. Objects, wick away sweat and provide comfort, and it is used to resolve some of the general drawbacks. The company that has set the standard for suppressing environments.

For more information, visit: www.redbackscushioning.com or telephone 01327 702104.

Anti-fatigue mats help to protect your workforce

Standing at work for long periods can put excessive pressure on muscles and joints, leading to back and joint pain, muscle tension and problems with circulation. Leading mat manufacturer Kleen-Tex has created a range of anti-fatigue mats which can help reduce the pressure of standing on hard floors for long periods.

From multi-purpose rubber foam cushioning mats to soft nylon surface mats for extra comfort under foot, there is a mat to suit any workstation.

“Our mats can be used in the toughest industrial environments and are great work horses, but we can also cater for those who need to consider the aesthetic appearance of their premises,” said Commercial Director, Nick Coward.

It’s also possible to incorporate a strong brand or health and safety message into many Kleen-Tex ranges, making them extremely versatile for use throughout a building, from gassy workshops to smart offices.

Find out more about the STAR1M here: www.cdvi.co.uk/catalogue/mifare-readers/star1m

T 01628 531300
sales@cdvi.co.uk

STAR1M: An innovative solution for standalone access control

Standalone access control systems allow access to many different buildings, including offices, apartments, schools... It is a cost-effective solution where controlled secure access is required. Standalone systems are designed to be easily installed, only needing a power supply, locking device and exit device to ensure its full operation. They are also quickly configured thanks to function cards to add and delete users. It offers flexibility and variety of access options for users, such as tag, card or code. Most standalone systems are highly scalable, allowing users to upgrade their systems as their needs grow.

However, standalone systems are often overlooked as they do not allow for user management and offer a lesser security standard (most standalone access control systems in the UK market are proximity systems). With those limitations in mind, CDVI developed and designed the STAR1M, an innovative solution for standalone access control, reinforcing the advantages of a regular standalone system while adding features to resolve some of the general drawbacks.

The STAR1M is a cost-effective and stylish standalone reader. It is easy to mount and being pre-wired easy to connect, while offering an audible and visual feedback when configuration and administration task are carried out in programming mode.

Most importantly, the STAR1M operates under the MIFARE® standard (13.56MHz). MIFARE® technology is a read-write technology and is generally more secure than standard proximity.

Find out more about the STAR1M here: www.cdvi.co.uk/catalogue/mifare-readers/star1m

T 01628 531300
sales@cdvi.co.uk

www.cdvi.co.uk
Here at Industry Update, we like to showcase companies which are striving to offer the highest quality of services to their customers, adding true value to their industry. For this reason, we are proud to announce that 3DPRINTUK has been chosen to receive our Outstanding Achievement Award, a company which has realised extraordinary triumphs in the 3D printing industry over the past eight years. Since its inception, 3DPRINTUK has grown to become one of the UK’s leading providers of additive manufacturing for low volume production runs and one off prototype production, working with an extensive range of companies across the country.

Based in Bow, London, 3DPRINTUK specialises in high quality SLS prints of 3D models which are produced at highly competitive prices. This is complemented by a friendly and helpful team which is ready to help its customers in getting the best out of their models, whatever they may be. Indeed, the company is dedicated to building meaningful relationships with its customers based on trust, efficiency and integrity, something which has allowed 3DPRINTUK’s client base to expand to now include over 2,500 companies, with further growth on the horizon.

Managing Director, Nick Allen, a highly trained product designer and engineer with years of valuable industry experience, established the company in 2011 in order to bring a trustworthy and friendly face to 3D printing. Indeed, Nick was inspired after he noticed a gap in the market for 3D plastic production without the need for CNC milling or expensive printing. Indeed, Nick was inspired after he noticed a gap in the market for 3D plastic production without the need for CNC milling or expensive printing. Indeed, Nick was inspired after he noticed a gap in the market for 3D plastic production without the need for CNC milling or expensive printing.

In response to this, 3DPRINTUK’s main focus is in low volume production, bridging the gap between prototyping and injection moulding. If tooling costs are expensive for a product, or if a company doesn’t require the volume which is demanded by injection moulding, 3DPRINTUK can help. The company offers clients a high quality service which incorporates a quick turnaround, identical and accurate models, and polishing for a smoother finish.

By using Selective Laser Sintering (SLS) machines, the company offers its unrivalled low volume and batch production runs, producing anything between a handful to an entire portfolio of parts. This service is pertinent to numerous sectors, whether this is for the production of technology, engineering parts, models, and many more. Indeed, the components created in this manner are often of superior functionality and resolution in comparison to those created using traditional resin printers. Despite being a relatively new company, 3DPRINTUK has produced over one million 3D parts using its SLS technology. Furthermore, with a mission to ensure each of its numerous clients gets their parts exactly as intended, all of 3DPRINTUK’s printers are recalibrated once a week and all printed components are visually checked before they are dispatched.

We had the pleasure of speaking to Nick, who told us about some of 3DPRINTUK’s successes over the last year and gave us a taste of the company’s anticipated future plans. “The last 12 months have seen huge amounts of expansion for us,” explained Nick. “We’ve achieved nearly 50% growth on last year, and we’ve increased our numbers of production items and runs to continue to provide our customers with the excellent service they have come to expect from us.”

Indeed, due to unwavering customer demand, 3DPRINTUK is about to move to a brand new office which is seven times the size of its current premises. “We’re known for offering just one material, and this new office will allow us to offer more materials, finishes, and processes so we can continue to meet our customers’ needs. Our client base is huge, and in our current offices we don’t have the space to accommodate their developing needs, so this move is very exciting for us.”

Indeed, 3DPRINTUK understands the ever-changing needs of its customers, and this expansion is just one of the ways it is working to accommodate them. “We’re about to launch a new order management system, which will allow for complete transparency, meaning our customers can see where every part of their order is. Also, they will be able to access their order history online, meaning they can place orders whenever they want in a more efficient way. Finally, we will also be offering trade accounts for a wider range of companies. At the moment, we can only offer them to customers who spend over a certain amount, but we will be reducing this limit to make our trade accounts more accessible.”

With an exceptional eight years behind it, packed with unprecedented success and growth, 3DPRINTUK has a firm foundation on which it can build, progress and achieve as it looks to the future. If you would like to find out more information on the company’s full range of services, head to the website. Alternatively, get in touch using the contact details below.

1 0208 692 5208
www.3dprint-uk.co.uk
UK Dairy Day Review Top 10

UK Dairy Day marks its dedication to dairy

The BEST yet! Fantastic support was evident at the sixth UK Dairy Day demonstrating the strength, positivity, and dedication of the dairy industry with thousands using Telford on 11 September 2019 to network, learn and do business.

The dairy industry faces great challenges; the negativity of the media, the financial pressures of milk prices and the uncertainty surrounding Brexit can leave every one in the media, the financial pressures of milk prices and the uncertainty surrounding Brexit can leave every one

Internal and external exhibition areas were full with over 300 exhibitors representing all sectors of the industry showcasing their products and services, offering advice, innovative (in)novations and fantastic hospitality. The weather was fantastic for machinery and equipment to sparkle in the sunshine throughout the external area which included a very large area in the UK.

Secure Covers® Secure Covers® designs and develops its leading range of silage covers, windbreaks, roller doors, bay covers and other protective agricultural products in the UK. Made from the highest quality, finely knit, UV stable HDPE, all Secure Covers® products are available throughout the UK and overseas. Secure Covers®, in the farming community, Secure Covers has earned a wide reputation for quality, durability and value.

Secure Covers® makes shearing up silage clamps quick, clean and easy. Made from tough interlockedHDPE, Secure Covers are over走过silage sheets and feed in place using Secure Gravel Bags.

Once fitted, Secure Covers® unique construction disperses wind gusts ensuring that the silage sheet remains in place on the silage pit.

Flexible Secure Covers reduce surface waste by keeping the silage sheet in close contact with the silage surface.

Ecolab launches new Flexigard Spray

Progiene, renowned dairy hygiene specialists, have taken on the distribution of the Ecolab Flexigard product portfolio and has launched Flexigard Spray, a new, BPI (Biocidal Product Regulations) approved post-milking lactobacil acid spray.

According to Progiene’s Business Unit Manager Alison Clark, “In Flexigard Spray, we believe we have found the perfect addition to complement the well-established Flexigard herd hygiene range.”

Flexigard Spray has been formulated to be sprayed through conventional or automated systems, including robotic milking equipment and contains lactobacil acid, a broad-spectrum biocide with proven efficacy against the environmental and contagious pathogens that can lead to clinical and subclinical mastitis infections. Flexigard Spray is designed to be film forming to improve coverage and contact time on the teat skin to protect for longer and has a low formulation for reduced wastage so Flexigard Spray stays on the teat and not on the floor!

Additionally, the strong blue colour of Flexigard Spray provides a visual check that all cows have been sprayed or dipped prior to leaving the milking parlour. Flexigard Spray has been trialed on UK and European farms with 100% of the farms reporting a drop in their antibiotic use. The same number of farmers reported that while trialling Flexigard Spray, tear skin condition had improved which had also led to a reduction in time spent cleaning teats at the following milking.

Flexigard Spray is manufactured by Ecolab with Progiene having the sole distribution rights in the UK.

Progiene is currently offering a free bodywamer with each 5,000 litres purchased. Visit: www.progiene-dairy.com for more information.

Your trusted partner in slurry and agricultural waste water management

Founded in 1985 by Peter Russell, Midland Slurry Systems Ltd specialises in the supply and management of agricultural waste water treatment and animal slurry management across the UK. Since Peter’s retirement, the company remains a family owned and run business and the managing of the business as we continue to grow.

We probe ourselves on a full service and bespoke offering to ensure every customer’s need is met and are always looking at new ways to improve our services and to be on the front edge of innovation. We offer our clients a wide range of slurry installations and servicing, from farms with just 50 cows to large scale dairies with 2,000 cows and every herd size in between. The company also count anaerobic digestion (AD) plants and pig farmers amongst our customer base.

Farm and Pet offers, or 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

Keep your animals happy & healthy

Product Update has selected Farm and Pet as one of our top exhibitors at this year’s UK Dairy Day. An independent online pet pharmacy, Farm and Pet supplies products for all aspects of animal healthcare, serving the commercial and domestic market with large and small animal products.

With a huge selection of farm and pet supplies to choose from, Farm and Pet boasts a team of friendly and efficient staff to help you every step of the way. 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.

The company offers a range of medicinal, hygienic and food based products for both pets and farm animals, to ensure they are kept happy and healthy at all times. Indeed, Farm and Pet knows how important it is to keep your pets well-groomed and feeling their best, and understands that healthy farm animals mean higher levels of productivity. This is why Farm and Pet does its best to ensure you can find the right products in the right quantities whenever you need them.

If you would like to find out more information on everything we can provide:

Visit our website: www.farmandpet.co.uk

Anpario holds the key to improving fertility rates and life-long milk production

Anpario is a UK-based, world-leading, innovation driven company, with over 30 years of expertise in the agricultural sector. The Anpario portfolio is divided into four categories; Health and Performance, Toxic Management, Feed Quality and Hygiene and Insect Control. Anpario’s mission is to add value throughout the lives of animals by combining knowledge, science and nature. This is accomplished by producing cutting-edge technologies that work in harmony with the natural aspects of the animals’ biology and environment to promote healthy growth and maximise producers’ profitability.

T 041 (0)1999 537380 sales@anpario.com www.anpario.com

Biocell Agri: The yeast specialist

Biocell Agri is a specialist in the field of applied microbiology for animal nutrition, managing rumen function for maximum performance and safeguarding health through effective mycotoxin control.

The company offers the most comprehensive selection of ingredients that can be used at all stages, from dry/cubed to liquid feeds, home mixes, and any farmer who wishes to achieve maximum return from home produced feeds and forages, while exploiting the true genetic potential of all stock.

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, consistency, 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 dgs has obtained EU approval for sheep and mixing gains, 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.

Contact
T 01776 826647 M 07738 905625 biocellagri@btinternet.com www.biocellagri.com

Shropshire Hoof Care

Shropshire Hoof Care is an established foot trimming service striving to reduce lameness on farms by maintaining the health of the hooves of cows and other animals. We provide a fully automated upright crush with dedicated trimming rooms, allowing us to bring high quality foot trimming to animal owners. Our reputation has been developed over many years and we are now working with a number of local farms to ensure the health and well-being of their animals.

We can provide:

- A detailed action plan to be included into your Herd Health Plan.
- Referral of cases that need veterinary intervention
- Advice on footbath regimes & application
- Digital dermatitis control alongside scoring and an action plan
- Online access to all foot trimming reports and upcoming visits
- Mobility scoring

Contact us for more information:
M 07824 844621 office@shropshirehoofcare.com www.facebook.com/ShropshireHoofcare

Keep your animals happy & healthy

Further details can be found on this page and the front page.

www.anpario.com

www.ukdairyyday.co.uk

www.securecovers.com

www.biocellagri.com

www.midlandsllurrysystems.co.uk

www.midlandslurrysystems.co.uk

www.yellowpage.co.uk

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Transforming industry through additive manufacturing

Industry Update is proud to announce that 3DGBIRE has been chosen to receive our Additive Manufacturing Company of the Year award.

Established four years ago by Paul Croft and Alex Mayor, 3DGBIRE was created to assist industry in adopting additive manufacturing, acting as a transformative power for companies working within general engineering, automotive, architecture, aerospace, and medical industries, to name a few. Based in Lancashire and servicing the whole of the UK and Ireland, 3DGBIRE offers sales, expert support, adaptable training, and a broad range of 3D printers, scanners, filaments, spare parts and service plans.

Indeed, 3DGBIRE offers world-leading 3D printing and scanning technologies, which are underpinned by top quality materials and support with training services both on and off site. The company provides a comprehensive service, from implementation and training all the way through to first class aftercare.

Since its inception in 2015, 3DGBIRE has witnessed impressive growth, experiencing a highly transformative period over the last 12 months. “We’ve doubled our head count, moved premises, won awards, released new products and taken on new suppliers,” said Peter Cropper, Operations Manager. “We’ve grown the business hugely in all dimensions, but the most important thing is that the whole team is excited and looking forward to working with both existing and new customers over the next 12 months.”

3DGBIRE’s key focus is on assisting all sectors of industry to adopt additive manufacturing, ensuring its customers know how to adapt and integrate it into their existing workflow whilst realising substantial returns on their investment. “We provide customers with a pathway and understanding to help with this. We have business development experts and applications engineers who work with our customers in a consultative way, working on practical projects to identify the best applications for adopting additive manufacturing into their work routines and production processes.”

“3D printing and its associated materials are always evolving, so we make it our mission to stay on top of new developments and make them accessible to our customers. Our workshops and training courses can be delivered either at our own premises or at the customer’s location anywhere in the UK or Ireland. It’s all about sharing expertise and delivering the means for industry to make significant returns on investment with additive manufacturing.”

Adopting additive manufacturing boasts tangible benefits for businesses in most industry sectors. “Whether a business is involved with manufacturing bespoke objects, or has mass production lines, there will be opportunities for 3D printing to save time and money,” explained Peter. Indeed, by using additive manufacturing, production processes can become faster and less expensive than many traditional methods. When customers can manufacture the parts they need within much shorter lead times and at hugely reduced unit costs, this naturally results in excellent ROI.

With an impressive array of successes over the last year, 3DGBIRE has a firm foundation on which to build its future plans. “We’ll be continuing to grow our expert workforce and customer training capabilities, as well as expanding our product portfolio to ensure we are able to serve as many industry customers as possible throughout the UK and Ireland,” said Peter. “It’s an honour to receive this Company of the Year award; we work hard at everything we do so it means a lot to be recognised.”

If you would like to find out more information on 3DGBIRE’s full range of capabilities, and see how they can help you transform your production processes, head to the website or get in touch using the contact details below.

T 01257 228411
enquiries@3dgbire.com
www.3dgbire.pro
CHEMUK: Where the UK’s chemical industries meet

This year’s CHEMUK show took place from 1-2 May 2019 at the Yorkshire Event Centre, Harrogate. It is the UK’s only trade show dedicated to bringing together multi-layered chemical/chemical product development, specification and processing/ manufacturing communities with crucial supply chain supplier groups.

With over 2,500 specialist businesses contributing to the UK’s chemical industry, CHEMUK is the unmissable event where the UK’s chemical industries meet. 2019’s event saw over 170 specialist exhibitors on site, showcasing the latest plant equipment, materials, and services, making it an exciting & diverse experience for those who attended.

Taking place over two days, the event was a comprehensive supply chain sourcing, business networking, intelligence gathering, test practice and strategy development experience, bearing an outstanding speaker programme featuring over 90 speakers. These experts delivered the latest intelligence, best practice and technological insights, addressing significant topics which are influencing the chemical industry both today and in the future.

Next year’s event will be taking place from 13-14 May 2020 at EventCity in Manchester. This is our pick of the best exhibitors from this year’s show, listed in alphabetical order: Chemicals Northwest, CONDUCTORLINER, Hibiscus Plc, The Hikma Group, LAUDA Technology Ltd, Rain for Rent & Suurmond UK.

Further details can be found on this page and the next.

www.chemicalukexpo.com

Chemicals Northwest

Chemicals Northwest is an industry-led, cluster organisation that works with the chemically using industries of the North West and surrounding areas. We are an established business network, run by the Chemical Industries Association, centralised around a dynamic membership structure that brings together member businesses. With over 140 members we actively promote this important regional sector.

Our aim is to improve the sustainability, competitiveness and image of the industry by facilitating networking events, common interest groups and interactive workshops all aimed at covering topical industry issues. Chemicals Northwest also publishes a quarterly magazine called Elementor 'Elements’ containing the latest round up of member news, specialist features on topical chemical industry issues and spotlights on new members. This is a great opportunity for member companies to establish an association with those sector issues by contributing free editorial and press releases. Companies may also wish to look at advertising.

Lauda Technology Ltd

LAUDA Technology Ltd provides class-leading expertise in pre-sales and post-sales for applications requiring precise heating and cooling solutions, ranging from -150°C to +650°C. These solutions can apply to multiple product stages, from research and design through to pilot plant, full production lines and quality control.

Working within a diverse range of industry segments, LAUDA Technology Ltd focusses particularly on chemical, biotechnology, pharmaceutical, medical, automotive, aerospace, digital printing and food and beverage application solutions.

The primary focus is on robust and feature-rich solutions that allow operators to easily become familiar with the equipment, while giving customers a reassurance on total cost of ownership throughout the equipment life.

Annual Awards Dinner

CNW wish to take this opportunity to officially launch our 2020 annual awards dinner programme. Due to take place at the Hilton Manchester Deansgate on 19 March 2020, we encourage all those involved in the industry to share good news stories by entering the awards and helping us to promote our dynamic sector.

Contact www.cia.org.uk/chemicalsnorthwest/awards_2020

Rain for Rent

Rain for Rent is a leading provider of temporary liquid handling solutions. With more than 80 years of engineering excellence in temporary liquid movement, filtration and storage in the United States, Rain for Rent international offers this Liquid Ingenuity® also in the United Kingdom, Germany, the Netherlands, and France. Products and services include newly designed storage tanks, filtration units and spill containment for use in petrochemical production and refining, construction, environmental remediation; in fact any industry that needs liquid handling solutions.

The safety-focused containment systems are designed with Liquid Ingenuity® in mind, so that we can handle your project needs. Our knowledge and experience help you to safely transfer and temporary store liquids. Combining a 70,000 gallon storage tank with the E-Contain® Spillguard, the hard-walled, high-capacity spill containment is ideal for multiple vehicle containment scenarios. Furthermore, these walls and corners can be utilised to form any size of lagoon for storage of storage of liquids, assisting with remediation or responding to an environmental incident.

Hibiscus Plc

Hibiscus Plc is a long-established, family-run, commercial printing company that is owned and managed by the Killey family. It is one of the UK’s leading manufacturers of Hazard Warning Labels and for nearly 40 years, it has specialised in providing high-quality, label printing solutions for the chemical and hazardous-goods industries. It also produces software for the classification and labelling of chemicals, and the creation and management of safety data sheets, to help its customers comply with the supply, transport and end-use of chemical products.

Hibiscus Plc is the only label printer in the UK that actually performs its own BS5609 Section 3 tests and its self-tested substrates, and Blue Wool Scale 7 inks, provide fully compliant BS5609 labels which can withstand the harshest of environments.

The demands of ensuring compliance in the chemical industry means that, for reputable companies, choosing a label company with expertise and experience is pivotal. The correct labelling of chemicals for safe storage, distribution and transport can potentially be a minefield and Hibiscus has a long history of keeping ahead of the latest legal requirements in order to keep its customers in full compliance with the latest legislation.

Contact enquiries@hibiscus-plc.com

hwww.hibiscus-plc.com

Industry Update is sponsored by UNISIG – see them on page 21

www.stock-xpress.com

enquiries@hibiscus-plc.com

its customers in full compliance with the latest legislation.

www.hibiscus-plc.com

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www.lauda-technology.co.uk

PROFESSIONAL HEATING AND COOLING FOR INDUSTRIAL APPLICATIONS

THE COMPLETE SPECTRUM OF PERFECT TEMPERATURE CONTROL

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FROM ANY SIZE OF LAGOON FOR STORAGE OF LIQUIDS.

COST EFFECTIVE, FAST & FLEXIBLE LIQUID HANDLING SOLUTIONS.
New high temperature Drawer Filter Magnet

Bunting launched the FF350, a new Drawer Filter Magnet designed for use in high temperature applications, at the K 2019 Show (16-23 October 2019) Düsseldorf, Germany.

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 FF Series of Drawer Filter Magnets collect and separate ferrous and non-ferrous metals, and various plastics, in the United Kingdom, Germany, Italy, Malaysia and the USA, Klinkau is close to the customer through a worldwide established sales network including its own sales representative offices.

The Klinkau Group

The Klinkau Group is a worldwide leading supplier of plastic filter plates for the use in membrane and chamber filter presses. Established in 1981 the Klinkau Corporate Group is a medium-size company headquartered in Marktoberdorf, Germany. Klinkau filter elements are globally used in liquid-solid-separation mainly in chemicals & pharmaceuticals, food & beverage, mining & minerals (tailings and concentrates) as well as industrial and municipal waste water treatment.

Our filter plates excel through clever details, highest craftsmanship and excellent raw materials. Through continuous research and development, we have reached a point where our customers consider us as problem solvers and the ‘go-to-guys’ for membrane plate filtration and thick walled injection moulded parts.

With manufacturing facilities located in Germany, Italy, Malaysia and the USA, Klinkau is close to the customer through a worldwide established sales network including its own sales representative offices.

For more than 30 years, customers have been able to rely on Klinkau’s innovative technologies, high standards of quality and first-class service – or as we put it “Reliability and Performance in Filtration”.

Contact
T +49 8342 4005 0
info@klinkau.de

Suurmond UK

ChemUK 2019 was the first exhibition that Suurmond UK had attended in some years. We had developed the feeling that shows where not well attended by people that had serious reasons for being there. There would always be more salespeople than engineers or buyers. So, when ChemUK was brought to our attention we decided to dip our toes back into the exhibition game. We had been waiting for a dedicated, industrial chemicals exhibition game. We had been waiting for a dedicated, industrial chemicals exhibition. We had been waiting for a dedicated, industrial chemicals exhibition. We had been waiting for a dedicated, industrial chemicals exhibition. We had been waiting for a dedicated, industrial chemicals exhibition. We had been waiting for a dedicated, industrial chemicals exhibition. We had been waiting for a dedicated, industrial chemicals exhibition. We had been waiting for a dedicated, industrial chemicals exhibition. We had been waiting for a dedicated, industrial chemicals exhibition. We had been waiting for a dedicated, industrial chemicals exhibition. We had been waiting for a dedicated, industrial chemicals exhibition. We had been waiting for a dedicated, industrial chemicals exhibition. We had been waiting for a dedicated, industrial chemicals exhibition. We had been waiting for a dedicated, industrial chemicals exhibition. We had been waiting for a dedicated, industrial chemicals exhibition. We had been waiting for a dedicated, industrial chemicals exhibition. We had been waiting for a dedicated, industrial chemicals exhibition. We had been waiting for a dedicated, industrial chemicals exhibition. We had been waiting for a dedicated, industrial chemicals exhibition. We had been waiting for a dedicated, industrial chemicals exhibition. We had been waiting for a dedicated, industrial chemicals exhibition. We had been waiting for a dedicated, industrial chemicals exhibition. We had been waiting for a dedicated, industrial chemicals exhibition. We had been waiting for a dedicated, industrial chemicals exhibition. We had been waiting for a dedicated, industrial chemicals exhibition. We had been waiting for a dedicated, industrial chemicals exhibition. We had been waiting for a dedicated, industrial chemicals exhibition. We had been waiting for a dedicated, industrial chemicals exhibition. We had been waiting for a dedicated, industrial chemicals exhibition. We had been waiting for a dedicated, industrial chemicals exhibition. We had been waiting for a dedicated, industrial chemicals exhibition. We had been waiting for a dedicated, industrial chemicals exhibition. We had been waiting for a dedicated, industrial chemicals exhibition. We had been waiting for a dedicated, industrial chemicals exhibition. We had been waiting for a dedicated, industrial chemicals exhibition. We had been waiting for a dedicated, industrial chemicals exhibition. We had been waiting for a dedicated, industrial chemicals exhibition. We had been waiting for a dedicated, industrial chemicals exhibition. We had been waiting for a dedicated, industrial chemicals exhibition. We had been waiting for a dedicated, industrial chemicals exhibition. We had been waiting for a dedicated, industrial chemicals exhibition. We had been waiting for a dedicated, industrial chemicals exhibition. We had been waiting for a dedicated, industrial chemicals exhibition. We had been waiting for a dedicated, industrial chemicals exhibition. We had been waiting for a dedicated, industrial chemicals exhibition. We had been waiting for a dedicated, industrial chemicals exhibition. We had been waiting for a dedicated, industrial chemicals exhibition. We had been waiting for a dedicated, industrial chemicals exhibition. We had been waiting for a dedicated, industrial chemicals exhibition. We had been waiting for a dedicated, industrial chemicals exhibition. We had been waiting for a dedicated, industrial chemicals exhibition. We had been waiting for a dedicated, industrial chemicals exhibition. We had been waiting for a dedicated, industrial chemicals exhibition. We had been waiting for a dedicated, industrial chemicals exhibition. We had been waiting for a dedicated, industrial chemicals exhibition. We had been waiting for a dedicated, industrial chemicals exhibition. We had been waiting for a dedicated, industrial chemicals exhibition. We had been waiting for a dedicated, industrial chemicals exhibition. We had been waiting for a dedicated, industrial chemicals exhibition. We had been waiting for a dedicated, indust
Lifting the lid on capping, food and beverage. Within this assortment, Cap Coders machines are used for an even broader range of products, catering for all shapes and sizes of bottles, jerry cans, tamper evident caps, pump action spray caps, and trigger spray caps. All machines are accredited to ISO 9001–2008 standard, and come with a Certificate of Conformity/incorporation to further highlight the quality and validity of the company's technology.

Indeed, Cap Coder's extensive range of machines means the company can cater for any customer, no matter the size or project. Its range includes machines for screw cap tightening to the desired torque, press on capping, plug insertion, liquid filling, agitator ball insertion, conveyor, and ATEX zone 1 and 2 compliance.

Most importantly, all machines are made in the UK and designed in house, ensuring Cap Coder can manage everything, from design to manufacture to after sales care. "We do everything in house, including design, machining, fabrication and assembly," explained Ross Price. "This means we have total control over the entire process. We are also proud to offer bespoke machines, a rare feat in the UK market."

Using a solid foundation of trust and integrity, Cap Coder offers proactive and supportive service with realistic and competitive pricing, all of which is underpinned by innovative design, engineering and manufacturing capabilities. What's more, Cap Coders is agile enough to meet the changing needs of its customers, responding to developments in engineering and packaging by developing new products to cope with emerging challenges. By investing in an ongoing programme of investment, Cap Coder is well-placed to meet its customers' fluctuating needs. Indeed, Cap Coder actively encourages its customers to call and discuss their specific requirements, with the company's team of technical experts always putting its customers' needs first.

Indeed, Cap Coder's facility to offer bespoke machines helps the company to maintain its position at the forefront of innovation. We asked Ross to elaborate on the unrivalled experience a customer can expect when looking for a truly bespoke machine. "If a customer would like a bespoke machine, we invite them to the factory where they can discuss the style and operation of the machine, and what they want/need it to achieve. We look after the project right from these initial stages all the way up to producing the final machine for the customer. We are proud to offer full, comprehensive solutions no matter what their needs."

"We recently built a bespoke filling machine for an existing customer. They wanted a design we had for a capping machine to become a filling machine, and wanted the operator to only have to change the starwheel rather than having to change and move individual nozzles where they could have set them incorrectly, essentially making the product changeover fool proof."

Indeed, the customer was more than satisfied with the outcome, as the following testimonial demonstrates. "We have had a great experience working with Cap Coder. We have brought a number of machines from them including the latest CC560 filler. When we first approached Cap Coder with our filling machine brief, they used their knowledge and creative touch to come up with a totally new idea for us. We needed a compact machine, with quick changeovers, and fast, reliable operation. The machine they created for us achieved all this and more. It has helped us rapidly increase our production process to keep up with our 50% growth rates, whilst sticking to LEAN principles of manufacturing. We would definitely work with Cap Coder and I can highly recommend them." – Thomas Laird, MD of Crystal Spring Consumer Division Ltd.

With 40 years of unprecedented success, Cap Coder has exceedingly high expectations to live up to. Thankfully, the company is never one to rest on its laurels and the past year has seen further success for the innovative company. "The last 12 months have been brilliant," Ross said. "We're still growing consistently, as we have done for the last three years. We are always expanding our portfolio, offering an increasing number of capping and filling machines in addition to our established capping machine range. We're hoping to continue this expansion over the next few years. Also, our sales have been even better than expected, with the numbers being up on last year's."

To bolster this success, Cap Coder has employed some new staff members who have brought a wealth of experience to the company. "18 months ago, we took on a new Operations Director who has made a massive difference to the company, significantly reducing lead times and improving internal systems. The company also welcomes two new sales engineers and well as two new mechanical designer engineers."

We asked Ross what he was most proud of and he responded with, "We are massively proud of not only being a British company but a British company that designs, manufactures, supports and indeed exports its own products around the world. I am also so very proud of the team who have made all the growth possible. It's a tight, hard working group and they are all totally on board with me, pushing in the same direction. It's very reassuring feeling to be able to stand back from it all from time to time knowing that the key players are there pushing it with us in the company's best interests at heart."

We also asked Ross, what sets Cap Coder apart from its competitors? "Without doubt our strongest point is flexibility."
coding and filling experts

The flexibility to adapt and change whatever is needed to meet customers’ demands, not only from a mechanical aspect but also from a controls point of view. We often get asked to design in certain features such as a special sensor to detect something out of the ordinary.

“For example, we have just been asked to incorporate a vision system into one of our machines where once the torque head has finished cap tightening, it then picks up the bottle and slowly rotates it while the camera looks to detect a code on the bottle. Once detected, the torque head stops, lowers it onto the conveyor and releases it.

“This application is fairly straightforward but we have been challenged with some very technical situations. Luckily our Technical Director is nothing short of brilliant and there is no problem he hasn’t been able to overcome yet. It is due to this we are indeed becoming more of a ‘solutions’ company for some of our customers.”

Another recent development was the release of the Micro-Mono Bench Top Filling and Capping machine, used heavily in the e-cigarette industry. “This is a revised version of a previous model,” explained Ross, “and it can go from manual operation to being fully automatic. I’ve been told repeatedly that for its size and price range it is unbeatable in the industry, and it is one of our bestselling machines as well as being one of the most cost effective.”

Cap Coder offers one of the most comprehensive ranges of capping machines in the industry, providing anything from low volume bench top machines to fully automated production systems. The company’s solutions boast multi-functionality, designed to accept modular work stations, with fully automatic PLC control and a simple human-machine interface.

As well as the new range of machines including the Mini Mono and Micro Mono, Cap Coder has been designing a new range of filling machines due to popular demand.

Ross stated, “We have been incorporating fillers into our machines for many years now and have had much success using gear fillers recently, driving them with the Schneider Servo motors we know and trust. Using these motors and the new HMI/PLC combs we can program in very useful functions and due to repeated requests from customers, old and new, our machines have morphed from capping machines with an integrated filler, to totally dedicated filling machines.”

As well as its extensive range of high-quality machines, Cap Coder understands the ongoing maintenance needs of its customers, and provides outstanding after-sales care. Establishing solid, longstanding relationships with customers, Cap Coder boasts an expert team of service and support engineers which prides itself on reacting efficiently to customer needs. This guarantees that Cap Coder’s customers can maintain an efficient working machine.

Furthermore, Cap Coder understands that even the most reliable of machines need spare parts from time to time, in order to replace components that may have worn out. This is no trouble for Cap Coder, who can provide customers with any spare part for any of its machines, and arrange a visit to fit the part if required.

If this wasn’t enough, Cap Coder can also cater for any increase in its customers’ product ranges. If such an increase occurs, the customer may want to run their new products through their existing Cap Coder machine. Thankfully, all of the company’s machines are designed to accommodate new products by using change parts which have been specifically designed to fit each of its customers’ individual products.

This fantastic selection of aftercare services ensures that Cap Coder establishes and cements long-term relationships with its customers, adding further renown to the company’s enviable reputation within the industry.

These accomplishments are only set to continue, as Cap Coder has continuing plans to develop its already impressive product range. “We want to keep expanding,” explained Ross. “We’re developing increasingly faster machines, and we have just started designing a 120 per minute machine.” Indeed, Cap Coder ensures it has its finger on the pulse of the industry’s latest developments, and has a range of exciting projects in the pipeline to further address its customers’ needs.

Boasting a 40+ year history of outstanding manufacturing capabilities and unequivocal customer service, Cap Coder is fortifying its industry-leading status with each year that passes. Without question, the company is well-deserving of our Company of the Year award, “I feel great! It’s fantastic to have received this award,” Ross concluded.

Cap Coder can be found at a number of trade shows throughout the year, including the Hemp & CBD Expo in September at the NEC, Birmingham, and the White Label World Expo at the ExCeL Centre, London in November.

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

Contact
T 01865 891466
info@capcoder.com
www.capcoder.com

Packaging Company of the Year
FourKites® and Ocean Insights form strategic partnership to provide end-to-end predictive visibility and transform ocean freight tracking

Exclusive partnership between visibility pioneers creates a plug-and-play deployment model for end-to-end container visibility

FourKites®, the leader in predictive supply chain visibility, and Ocean Insights, the leader in ocean freight intelligence, recently announced an exclusive partnership to transform container visibility. The strategic partnership creates a plug-and-play deployment model that integrates Ocean Insights’ superior ocean freight tracking data with FourKites’ real-time visibility platform to offer domestic and international logistics professionals true end-to-end visibility, from global seaports to final destinations worldwide.

By combining FourKites’ unparalleled network of more than 260 global shippers with Ocean Insights’ real-time container tracking capabilities, globally, import and export teams can now rely on a single system for door-to-door tracking.

Through real-time visibility and advanced analytics, FourKites and Ocean Insights customers can now better manage detention and demurrage costs. And by utilising FourKites’ comprehensive dashboard, they can improve operational performance and reduce operational costs.

“We’re excited to now offer true door-to-door capabilities to our customers via the integration of our superior ocean data, together with FourKites’ over-the-road data and powerful predictive platform,” said Dr Felix Richter, CEO of Ocean Insights.

“This partnership gives FourKites and Ocean Insights’ customers powerful new capabilities to track cargo and notify downstream supply chain stakeholders of potential delivery disruptions,” said Mathew Elenjickal, CEO of FourKites. “Now, supply chain professionals can better manage their operations and unlock value through a single, consistent visibility platform, regardless of international and domestic responsibilities.”

Since launching five years ago, FourKites has pioneered the industry shift to real-time visibility, enabling shippers to improve on-time delivery and optimise their supply chains based on actionable data and predictive intelligence. With a network that now includes more than 260 of the world’s top shippers, including 18 of the top 20 food and beverage companies and nine of the top 10 CPG companies, FourKites tracks more than 600,000 shipments every day.

Operating on a global scale, Ocean Insights collates millions of data points and provides actionable insights into ocean freight for the logistics industry to improve visibility, transparency, and efficiency. Ocean Insights has pioneered the integration of carrier information and actual vessel whereabouts, providing carrier-neutral, real-time information of all shipments across all major international and regional ocean carriers, as well as container status updates and predicted ETA. Logistics teams all around the globe can get insights into freight movement and overall supply chain transparency that enable them to improve their day-to-day and long-term strategies.

About FourKites
FourKites is the largest predictive supply chain visibility platform, delivering real-time visibility and predictive analytics for the broadest network of Global 1000 companies and third-party logistics firms. Using a proprietary algorithm to calculate over-the-road shipment arrival times, FourKites enables customers to lower operating costs, improve on-time performance and strengthen end-customer relationships. With a network of more than four million GPS/ELD devices, FourKites covers all modes, including truckload, LTL, ocean, rail, intermodal, last mile and parcel. The platform is optimised for mobile and equipped with market-leading end-to-end security.

To learn more, visit: www.fourkites.com

About Ocean Insights
Ocean Insights specialises in ocean freight visibility and intelligence by collecting and analysing millions of data points. The company provides actionable information and insights into ocean freight cargo movements. Harnessing the power of big data, an expert team of data analysts supports customers’ day-to-day operations and operational strategies. Shipping practitioners can make informed and strategic decisions based on historical intelligence, predictive ETA, track & trace, and real-time container visibility data. Ocean Insights prides itself on delivering best-in-class data and intelligence in ocean freight.

To learn more, visit: www.ocean-insights.com
Handling, Storage & Logistics Update

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.

T +44 (0)1572 490644
steve@alderneyrace.com
www.stakker.eu

Stretch wrappers & packaging

Packaging provider, Hazel 4D, and pallet wrapper manufacturers, Atlanta Stretch, exhibited together at the PPMA Total show.

They’ll be showcasing three stretch wrappers. The Mytho Easy wrapper has a 25mm low profile turntable and is great for high volume pallet wrapping. The high-tech film carriage can stretch film up to 400%. The compact SFERA Easy Touch robot wrapper has the same advanced carriage but can be used anywhere to wrap any size of pallet. The Marathon is a safe alternative to manual wrapping. Operators can push the machine forwards around the pallet to wrap it without bending down, reducing the risk of back strain.

Hazel 4D will demonstrate its Nuevopak recycled paper void fill machines and Locked Air machines, alongside a winder cart that collects air cushions as they’re produced.

T 0113 242 6999

Launching products

Campisa UK launched its loading bay and industrial door products at the International Materials Handling Exhibition (IMHX) at the NEC between the 24th and 27th September 2019.

Campisa Srl has been established in mainland Europe for over 45 years and is a recognised supplier and installer of loading bay dock levellers and shelters, especially in the ‘Big Shed’ market.

One of the unique features of the Campisa product range that was on exhibit was the Fidelity drive system for Sectional Overhead doors. This hydraulic drive system does away with conventional springs, spring shafts and cable drums. The system can be fitted to new doors and/or existing doors. Because there are no springs to tension or replacing cables that come off cable drums, the drive provides a much safer method of installation and servicing of sectional doors.

T 01403 741935

To discover our extensive Warehouse Range please visit www.manitou.com or contact your local Manitou dealer

WWW.MANITOU.COM
High quality content sees Packaging Innovations London break records

This year’s debate focused on plastic alternatives and the environmental impact they present, with experts from world-renowned brands leading discussions about the path to a zero-carbon future. The next Easyfairs packaging event will be Packaging Innovations, EcoPack, Contract Pack & Fulfilment, Label&Print, and Empack 2020, which takes place at NEC Birmingham from 26-27 February 2020. The London show returns to Olympia from 23-24 September 2020. This is our pick of the best exhibitors from this year’s show, listed here in alphabetical order: Shredhouse & Spectra. Further details can be found on the right.

www.easyfairs.com/packaging-innovations-london-2019
www.packaging-innovations-london-2019
www.packaging-innovations-london-2019
www.packaging-innovations-london-2019

London packaging show hugely successfully for Spectra

Spectra recently experienced another successful appearance at this year’s Packaging Innovations show at London Olympia. The Suffolk-based manufacturer attracted a large amount of visitor interest to its eye-catching stand, drawing genuine praise for the firm’s comprehensive offering. On display were a large selection of standard bottle designs in HDPE and PET, injection moulded closures, plastic jars, filled customer pack examples and decoration examples. Spectra also highlighted environmental packaging in both Post-Consumer Recycled (PCR) and sugarcane-based bioplymers. Taking advantage of the show’s innovative theme, Spectra also premiered its very latest ground-breaking offerings. These included a new marlita finish for injection moulded closures, its most recent high lustre silk finish for bottles and a new range of distinctive oval designs in HDPE.

Spectra’s innovative capabilities were also recognised at the show where its custom moulding and environmental efforts for the Beached brand were nominated as one of the most innovative packs at the event. The same bottle also received a highly commended award in the prestigious Horstner Bottle Makers Award soon after.

T: +44 (0)1986 834190
sales@spectra-packaging.co.uk
www.spectra-packaging.co.uk

Creatively designed packaging

Shredhouse Limited is the only UK-based manufacturer of shredded kraft paper, tissue paper and cellulose for the gift packaging market for which we offer national sales coverage. Our high quality and eco-friendly packaging can help to enhance your products, gift boxes and hampers, aiding the overall unboxing experience while doing so.

As we approach the key holiday season, everyone is looking for packaging that is both environmentally friendly and eye-catching. Shredhouse have the perfect solution.

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For further information, please visit our website at: www.packaging-innovations-london-2019.com or for samples and pricing requests, please contact Jon Watton, Business Development Manager, on 01672 564333 or email: jon@shredhouse.co.uk

Labelling Company of the Month

First Choice Labels Limited was selected as our Labelling Company of the Month, for its expert manufacture of bespoke self-adhesive labels.

First Choice Labels manufacture a variety of bespoke labels and tags, including plain, pre-printed (up to 7 colours), foil and colourwashed, as well as printer ribbons and hardware. Established in 2004 by Nigel Willis, the Managing Director, First Choice Labels is based in Redcar, North Yorkshire. This excellent location puts the company close to some of the UK’s biggest road networks, allowing for hassle-free distribution across the country. What’s more, using its high quality and craftsmanship and its richly experienced and long-serving team of experts, First Choice Labels manufactures products which are known for their leading quality and craftsmanship and is proud to hold the ISO 9001:2015 and BRC Global Standard quality certificates.

Due to the bespoke nature of its offering, First Choice Labels has the ability to create products which are suitable for even the most unique requirements, providing an end-to-end service, guiding and explaining all aspects of the individual customer’s requirements. This means its loyal customer base is highly diverse, ranging from food & drink companies and national supermarket chains, to pharmaceutical companies and automotive manufacturers.

Thanks to its high quality products and commitment to customer service, First Choice Labels is satisfying its reputation as a leading bespoke label manufacturer. Indeed, its dedication to innovation and constant development has led to a recent investment in another PURSIS Inspection Splitter Rewinder. This has increased the company’s manufacturing capabilities, while also streamlining the process, allowing for greater efficiency and volume. This investment allows First Choice Labels to remain ahead of its competitors with products such as with Q Labels for mobile printers, which are commonly used in the retail and warehousing sectors.

First Choice Labels also recently underwent an internal extension, nearly doubling its existing 14,000sq ft factory floor space. What’s more, to ensure it will continue to grow with the industry, the company hired a Marketing Manager at the beginning of 2019. This means the company now has someone specifically dedicated to capturing every opportunity available, allowing for continual developments and improvements in the coming years.

As well as this impressive expansion, First Choice Labels also ensures it cultivates a supportive workplace environment, assisting three apprentices within the factory to help prepare them for the world of work and widen their opportunities within the manufacturing sector and beyond. This ethic also extends to the wider community; First Choice Labels is passionate about supporting local charities, and the Managing Director, Nigel Willis, is a Patron of the Middlesbrough and Teesside Philanthropic Foundation and has been for a number of years.

If you would like to find out more information on First Choice Labels’ full range of capabilities, head to the website or give us a call on the contact details below.

T: 01642-474230
sales@firstchoicelabels.co.uk
www.firstchoicelabels.co.uk

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T: 01642-474230
sales@firstchoicelabels.co.uk
www.firstchoicelabels.co.uk
Replace your tedious routine with the more relaxed weigh-in experience of the new XPR Analytical balance from METTLER TOLEDO

Weighing is an important act in every laboratory — but it can become tedious and even uncomfortable. The design of the new, smaller XPR Analytical balance gives you deeper access to the weighing chamber. This makes every weigh-in easier so you can stay steady & get more done.

METTLER TOLEDO is pleased to support your needs for an accurate, intuitive weighing experience with the launch of our newly redesigned XPR Analytical balance.

The weighing pan has been lowered by 50%. You can now place your arm on the table for greater convenience and comfort while weighing on, instead of having to hold it in place in the balance. Your benefits: A more relaxed weighing experience, less fatigue, less muscle tension, and less material lost to spills and scattering — it’s much easier to do.

Shorter weighing-in distance makes weighing much easier as the narrower design of the Excellence level analytical balance means that when weighing in from the side with a spatula, the distance to the weighing pan is shorter — yet another great advantage that makes weighing more relaxed and reduces the error rate. Every centimetre counts — and makes weighing-in easier.

Discover for yourself why the new, smaller XPR Analytical balance is a perfect combination of high performance, reliability and ease-of-use to help enhance weighing accuracy, comfort and productivity.

Check out the new XPR Analytical balance from METTLER TOLEDO to test it out for yourself.

www.mt.com/xpr-xsr-relax

As easy to operate as your tablet: The new, larger touchscreen of the XPR Analytical Balance from METTLER TOLEDO

Today’s busy laboratories are under high pressure to be productive. The new XPR Analytical balance enhances work speed by offering operators an easy, tablet-like work experience — even through lab gloves — for a fast, intuitive weighing experience.

The closer the measurement system can be moved to the weighing area, the better the result. The new XPR Analytical balance gives you a unique advantage here. Since the weighing area is closer, the weighing system has less distance to move from the weighing area to the measurement system, reducing the error rate.

To make it even easier to operate, the new, larger XPR Analytical balance has a high-resolution touchscreen. This ensures that the weighing area is closer to the measurement system, which means that the error rate is reduced.

Liquid CO₂ is fed through a non-wearing two-component ring nozzle of the acp system and expands on exiting the nozzle. Since the cleaning step with the non-combustible, non-corrosive and non-toxic CO₂ snow is also gentle on materials, even delicate and finely structured surfaces can be treated.

The aerodynamic force of the jet transports the fine CO₂ crystals. These are then contained by a protective system and expanded on exiting the nozzle. Since the cleaning step with the non-combustible, non-corrosive and non-toxic CO₂ snow is also gentle on materials, even delicate and finely structured surfaces can be treated.

The combined effect of the four mechanisms of action enables particulate and filmic contamination to be reliably removed; with this, the patented technology enables uniform, dry and repeatable cleaning, which is a prerequisite for accurate gauging results.

www.acp-systems.com

Surface Finishing & Grinding Update

Meeting growing cleanliness demands reliably and cost-effectively

Cleaning with CO₂ snow before precision gauging

Trends such as miniaturisation have given rise to new challenges in precision parts manufacturing. If strict tolerances are to be met, each product is carefully checked by gauging after surface precision grinding and honing processes. In order to do this, component surfaces must be clean.

With its quattroClean system, acp offers a solution capable of achieving the required cleanliness, reliably, reproducibly and cost-effectively. In addition, the dry, residue-free and environmentally neutral cleaning technology can be adapted to individual requirements. It is highly compact, easy to automate and simple to integrate into production lines and industrial 4.0 manufacturing systems.

Whether it is the automotive or supplier industry, precision or micro engineering, medical technology, mechatronics, electronics or other industry sector, parts are becoming increasingly smaller. In order to ensure product quality, precision parts are gauged optically, by machine-tool probe, or pneumatically measured after machining, grinding or honing processes.

The closer the measurement system can be moved to the previous production step, the better the results that are obtained. However, contaminants left on the parts’ surfaces, such as processing media, residues, abrasives, chips and flaky burrs, can be a problem. They may cause measurement errors and result in parts being rejected unnecessarily.

Scalable cleaning solution with CO₂ snow

This is where the reliable and cost-effective snow jet technology from acp systems AG comes into its own. The scalable cleaning system can be easily adapted to component geometries to clean complete surfaces or selective areas.

The environmentally neutral technology uses liquid carbon dioxide as a cleaning medium obtained as a by-product from chemical processes and the generation of energy from biomass. It has an almost indefinite shelf-life and is supplied in cylinders or tanks.

Liquid CO₂ is fed through a non-wearing two-component ring nozzle of the acp system and expands on exiting to form fine CO₂ crystals. These are then contained by a circular jetted jet of compressed air and accelerated to supersonic speed. The jet of snow and compressed air has a temperature of minus 78.5°C and can be focused exactly where it is needed. When it impacts the surface to be cleaned, a combination of thermal, mechanical, sublimation and solvent effects take place.

These four cleaning mechanisms enable the quattroClean system to remove contaminations, such as residual grinding oils, polishing pastes, abrasive chips, and dust from surfaces and tiny bores (blind or through). Since the cleaning step with the non-combustible, non-corrosive and non-toxic CO₂ snow is also gentle on materials, even delicate and finely structured surfaces can be treated.

The aerodynamic force of the jet transports the detached dirt away. This is then extracted from the cleaning cell together with the sublimated CO₂ in a gaseous state. The workpieces are dry on completion of the cleaning process, enabling them to be measured by optical, machine-tool probe or pneumatic gauging system immediately.

Compact, easy to automate and targeted control

Thanks to its modular design, the compact quattroClean system is easy to adapt to specific customer requirements. This allows for manual, semi- automated or fully-automated cleaning systems to be developed and integrated into existing production, assembly and packaging lines.

Cleaning tests are conducted at the acp technical centre to accurately determine all the process parameters for the application concerned, such as flow volume for compressed air and carbon dioxide, and the duration of the jet. Material properties and the type of contamination requiring removal are also accounted for. These parameters can then be stored as cleaning programs for flexible system control.

www.acp-systems.com

17
Rhopoint Components present NVE’s range of smart magnetic sensors

NVE Corporation, a leading manufacturer of tunnelling magnetoresistance (TMR) and giant magnetoresistance (GMR) sensors, are introducing new smart SM and ASR ranges – ultraminiature sensors offering sophisticated digital processing and programmable features.

The SM range includes TMR and GMR magnetometers, both able to detect magnets over 50mm away and offering in-plane sensitivity far superior to traditional Hall Effect sensors. These models are ideal for proximity sensing and non-contact current sensing.

The ASR002 is a TMR angle sensor offering digital indication of magnetic rotation, featuring excellent combination of speed (up to 375,000rpm) and precision.

Visit our website to see full technical specifications and to see the components in action or call us to discuss your design with UK-based technical support.

T 01342 330470
www.rhopointcomponents.com

A German gear-maker has announced a planetary gearbox with a patented automatic wear control system that prevents the usual increase in torsional backlash caused by wear, thus avoiding the need to adjust or replace the gearboxes when their backlash exceeds tolerance limits. Hamelin-based Melior Motion claims that with this technology, its PSC gearboxes ‘virtually’ ensure a backlash of less than 0.1 arc-min over their entire service lives.

Although the Melior name may be new, it is a spinout from Stephan-Werke, which started life as a motor manufacturer in 1908, and expanded into the manufacture of gears and geared motors in the 1920s. In 2012, Stephan embarked on a €64m investment programme to develop a new range of planetary gears which it launched in 2015 but only sold directly to a select group of robot manufacturers. In 2017, Melior Motion was ‘released’ from Stephan with the aim of marketing a standard range of the gearboxes aimed at applications such as positioning, packaging and machine tools, as well as robotics.

The PSC gearboxes span a torque range of 500Nm-7kNm, and operate with efficiencies of more than 90%. Their integrated bearings result in a high tilting ability, making them ideal for applications such as robot axes and manipulators. The wear adjustment system means that the almost complete lack of backlash is achieved with low preloads. The gearboxes also have low breakaway torques, improving their control behaviour and reducing peak loads.

At the end of 2018, Melior Motion opened a €7m facility that will allow it to produce 25,000 of the new gearboxes every year. There are plans for a second phase of investment in 2020 that could double its production capacity.

Patented wear control means that planetary gearboxes do not need to be adjusted or replaced

A winning formula

NV Measurement Systems (UKAS Laboratory 0653) has been providing calibration services for Rhopoint instruments since 2001 and most major manufacturers’ sound & vibration instrumentation since 2009.

Operations Manager, Kiran Mistry, says, “Having our laboratory based in Milton Keynes at ANV’s HQ means customers do not have to send equipment outside the UK for calibration. As a result, we are able to offer a 5-day turnaround and in conjunction with this, the customer is kept informed throughout the calibration process reducing downtime, potential loss of revenue while at the same time providing assurance and peace of mind.”


*Not accredited by UKAS.
T 01908 642846
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Drives, Controls & Instrumentation Update

Parvalux Electric Motors Ltd.
The UK’s largest manufacturer of geared electric motor solutions.
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Trusted in Process Engineering

Parvalux is the UK geared motor manufacturer behind a wide range of process applications; from conveyor systems and materials handling equipment to food production and vending machines. Parvalux is trusted where capability and reliability are non-negotiable. Contact us today to see how Parvalux can help your products really start to motor!

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GBS3 Geared Motor Series
Voltage 12 - 220V
Torque Up to 10Nm
Speed 11 - 500RPM
Power Up to 400W
Applications Conveyors

A3P Geared Motor Series
Voltage 12 - 220V
Torque Up to 10Nm
Speed 14 - 970RPM
Power 14 - 460W
Applications Industrial Vending Machines
Rare earth magnets recycling task force

The launch of the European Union (EU)-funded SUSMAGPRO project took place in Germany in June 2019. The four-year project focuses on the sustainable recovery, re-processing, and reuse of rare-earth magnets. With global expertise on magnets and magnetic assemblies, Bunting is one of several project partners.

Bunting is one of the world’s leading manufacturers of magnets, magnetic assemblies, and magnetisers.

“Rare-earth magnets are a key component in many frequently used items of equipment,” explained Chris Riley, the Group Magnetics Engineer of Bunting’s European operation. “With limited resources, developing effective methods to reclaim and then recycle or reuse the magnets is increasingly important.”

The SUSMAGPRO (full title: Sustainable Recovery, Reprocessing and Reuse of Rare-Earth Magnets in a Circular Economy) project was granted funding from Horizon 2020 programme of the European Commission (grant agreement no. 821114) and consists of 19 project partners and one associated partner from nine European countries.

Rare-earth magnets are widely used in many high-tech industries including electronics, automotive, aerospace, a mobility, wind power generation, and consumer goods. The vast majority of rare-earth reserves are located in China and between 2,000 and 3,000 tonnes of rare-earth-elements (REE) are imported into Europe annually. Presently, less than 1% of the imported REE are recycled.

The overall objective of the SUSMAGPRO project is to develop and demonstrate four novel pilot-plant solutions for the clean and sustainable recycling of permanent magnets at Technology Readiness Levels (TRLs) 6-7 (technology or system prototype demonstrated in relevant/operational environment). This enables the remanufacturing of secondary REE material into new magnetic products. In the second half of the project, a travelling roadshow will display these new products. Such novel activities will take place over the whole value chain, and solutions created will enable Europe to gain a better foothold in the worldwide renewable energy systems (RES) device markets, enabling the future of zero-carbon mobility and energy.

Bunting’s role in the project is to market the recycled magnets or magnetic material produced during the recycling process. For several decades, Bunting has designed and supplied magnets and magnetic assemblies and the team will draw upon that experience to maximise the potential for the secondary REE, in whatever form. The Bunting team is working closely with several organisations including the University of Birmingham, who have developed a process of recovering Neodymium powder from scrap hard disk drives.

“Developing a successful rare earth magnet recycling process has the potential to release vast reserves of REE material,” explained Chris. “Not only are there obvious environmental benefits, but also economic. Using secondary REE materials reduces Europe’s reliance on imports from China.”

For further information, please contact us at: press@buntingeurope.com or visit our website at: www.buntingeurope.com

Endoline Robotics Company

Endoline launches Robotics Company

Endoline, the UK’s leading manufacturer of automated end of line equipment, has launched a new sister company, Endoline Robotics Limited (ERL), which is the culmination of a bid to meet the ever-growing demand for fully automated end of line systems, which increasingly require robotic solutions.

Endoline Machinery has launched sister company – Endoline Robotics Limited (ERL) – and formed a strategic partnership with FANUC UK.

The move reinforces Endoline’s reputation as a leading provider of case erecting and sealing automation and, through the strength of the FANUC brand, it will now manage the installation of robotic palletising systems under the umbrella of ERL.

“Our ability to engineer customised, fully automatic case erecting and sealing solutions underpins our reputation in the market. Through our relationship with leading global food manufacturers, we have become increasingly aware of the demand for robotic integration, particularly as companies move away from using manual labour,” says Director of Sales for ERL, Grigory Belosky.

At the recent FANUC Open House, which was held at FANUC’s state-of-the-art UK headquarters in Coventry from 29-31 October 2019, ERL showcased a fully automatic palletising system which was palletising and de-palletising plastic crates. The system incorporates a 6-axis FANUC M-710iC series industrial robot and the plastic crates were in various sizes and colours to demonstrate the ability to manage mixed pallets.

For further information on any of Endoline’s extensive range of machines, please contact Endoline on +44 (0)1767 312582 or email: sales@endoline-robotics.com or visit: https://endoline-automations.com/robotics
Helping manufacturers push the technological envelope

Vision Engineering, a privately owned, British company, has consistently delivered leading-edge stereo inspection and non-contact measurement products, using leading-edge optical or digital technology to improve productivity and quality for thousands of companies. The company’s strategic focus is on optimising the user interface and development of truly ergonomic systems. Operators who use instruments for sustained, repetitive, shift patterns or who need to work very intensively, for short bursts, with high accuracy requirements; experience physical and mental stress which reduce their efficiency in terms of throughput; accuracy or scrap rate.

Vision Engineering is constantly developing technologies to reduce postural or optical stress and to optimise sensory engagement with the work in hand or the working environment.

The company has achieved unprecedented success since its establishment in 1958, and we had the pleasure of speaking to Mark Curtis, Group Managing Director, who told us more about the work behind these impressive achievements.

“We are 99% focused on manufacturers who make something which is safety or quality critical, such as in the medical or aerospace sector, or on manufacturers who concentrate on maintaining a competitive edge, such as high-end automotive companies manufacturing electric and hybrid vehicles who are moving towards electric, hybrid or cleaner combustion engines. Furthermore, in the medical industry, there is a focus on developing biological materials for coating implants and on bone reconstruction technology, while in sustainable energy there is a lot of work being done on efficiency, storage and usage of renewable energy sources. “When somebody enters a new technological process, it poses challenges as a company needs to meet new standards. Vision Engineering can help whenever a customer is trying to push the technological envelope.

Now, there are developments in the automotive sector, which is moving towards electric, hybrid or cleaner combustion engines. Furthermore, in the medical industry, there is a focus on developing biological materials for coating implants and on bone reconstruction technology, while in sustainable energy there is a lot of work being done on efficiency, storage and usage of renewable energy sources. “When somebody enters a new technological process, it poses challenges as a company needs to meet new standards. Vision Engineering can help whenever a customer is trying to push the technological envelope.

“We always attend numerous trade shows, in a wide variety of vertical sectors, to stay abreast of the industry, discover issues and then develop our technology to address them. We invest heavily in our Research and Development to ensure we consistently deliver what our customers need. For example, the latest trends are towards haptic engagement. Haptics is a concept, largely driven by German leading manufacturers, which emphasises the need for a user to engage on a sensory level with the instruments they are using. This can be through soft touch, optimally located controls, or through sound and sight; our latest products focus on user interfaces, including haptic technologies.”

The company’s flagship product, the Mantis, was the world’s first stereo microscope without an eyepiece, designed to fit the gap between a bench magnifier and a microscope. This was a major ergonomic revolution, and it went on to win numerous design and innovation awards. Mantis became the new benchmark for high performance stereo magnification, and since then, Vision Engineering has made constant improvements to the technology to keep up with changing demands, and is currently in the process of developing the fourth generation of the microscope.

In line with the Company strategy of addressing the latest technological trends, Vision Engineering has recently been focusing on the global drive towards Virtual/Augmented Reality and communication of Real Time information. The wide interest in the Internet Of Things (IoT), Industry 4.0, Blockchain and the development of 5G is driven by the need to have accurate, comprehensive information, which can be communicated anywhere within a global multinational operation, around multiple location supply chains, or between centres of excellence.

Three months ago, Vision Engineering launched its Deep Reality Viewer, DRV-21, the world’s first 3D stereo viewer for which the company has global patents. DRV addresses the disadvantages of sensory isolation and disorientation, meaning users can work more comfortably, for longer, wear their own prescription glasses and interact freely with their colleagues. In addition, communication over wired or wireless media enables users to interact, in real time, with their colleagues or remote sites who are elsewhere, even in other parts of the world. Manufacturing sites will now be able to share best practice, fault finding/troubleshooting and consult, looking at the same, live, real-time images.

The DRV-21’s stereo digital image without headaches or specialised glasses provides a natural 3D view, with a high definition resolution, enabling better quality inspection. Without the need for special glasses/ headsets, Vision Engineering’s unique device allows freedom of head movement, natural subject view, comfortable working position, easy hand-to-eye co-ordination, and the ability to wear prescription eye glasses.

“After launching the DRV earlier this year, it has been taken with great interest around the world, with initial sales on a global scale. This was the first device in a family, and we have a five-year plan in place to exploit this patented core technology in a variety of situations. The first two devices were directed at our current markets, and now we are developing the range to make it appropriate for a broader range of markets, such as in drone and satellite scans and MRI scanning. It’s all about exploiting the technology in different forms.”

The Deep Reality Viewer R&D programme took three years and was supported by significant Innovate UK R&D & market analysis grants.

Indeed, Vision Engineering has a constant rolling programme of various projects to ensure they are always addressing the pertinent challenges within various industries. “We are confident that what the next 12 months will bring and the selection of new products we will be releasing,” explained Mark.

“High end and manufacturing needs high and facilities”, stated Mark. “To this end, two years ago we built from scratch and have now occupied state of the art R&D, manufacturing and Global HQ facilities of 94,000ft² in Woking, Surrey. Being able to design and build a facility meant that we could incorporate the latest lean manufacturing techniques and full development and testing labs. It enabled us to compete on the world stage and means that we now have a total of 130,000ft² of modern, full service manufacturing space, which includes a wholly owned factory in Connecticut, USA.”

As well as an unwavering dedication to product advancement, Vision Engineering is committed to the ongoing development of its expert staff, focusing on staff retention and running active apprenticeship schemes to help train a full range of skills to budding engineers.

“We are also increasing the drive of our e-marketing and social media. We have recently configured our website to be used on mobile devices as well as computer screens – our stats showed that an increasing number of people were accessing our site using a mobile device, so we put motions in place to ensure they were getting a valuable experience from visiting our webpage, no matter what device they were using. There are also more people using social media, and so we are utilising this to help our customers stay abreast of our products even when they’re not looking for them. This means they remain aware that Vision Engineering is constantly working and researching, with innovative products in the pipeline that may be of value to them. To add to this, we are producing webinars to provide flexible and interactive information which can be in front of both potential and existing customers immediately.”

Certainly, it is clear to see how Vision Engineering is remaining at the forefront of innovation and cementing its status as an industry leader. “It’s great to receive this Company of the Year award,” concluded Mark. “The interesting thing is that it’s also great internally. It’s good for people to feel like the broader world is taking note of their hard work.”

If you would like to find out more information, head to the website or use the contact details below.

T: 01483 248300
www.visioneng.com
Production gundrilling of track pins

William Cook is a UK manufacturer of track running gear for armored vehicles. Their relentless drive to engineer, test, and produce the best products in this category has propelled them to their position as a global industry leader. William Cook is the main supplier of vehicle tracks to the British Army, in addition to having their products on the majority of armored 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. Components are produced to be strong, lightweight, and durable – at enormous production volumes. The material used is challenging to machine, and the combination of design and production demands leaves no room for compromise. Track pins 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 modernize 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

Deep holes exist in the majority of industries, and many manufacturers such as William Cook encounter these applications, typically considered holes with a depth-to-diameter ratio of 20:1 or greater. When manufacturers are inexperienced with the process and equipment, the specific challenges can seem intimidating to go through alone. However, deep hole drilling uses modern tools, machines, and technology and follows proven methods.

With the right partner and experience, in-sourcing the process and planning for long-term gundrilling success is easily manageable.

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 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 lineup. 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 2-3 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, 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.

www.unisig.com
Pentagon Plastics Group Ltd purchases additional 12,000ft² freehold

Pentagon Plastics Group has secured the freehold of an additional 12,000ft² of manufacturing space in its latest drive to improve its service and manufacturing facilities.

Horsham-based Pentagon completed the purchase of the adjacent factory, which is home to Phoenix Engineering 2009 Ltd (also part of the Pentagon Plastics Group), and a collection of smaller businesses.

Pentagon says acquiring these facilities adds to the freehold of the plastics moulding site and the group now owns over 25,000ft² of operational space.

“This has been a long-term goal and marks the start of another exciting period within the organisation,” explained Managing Director, Paul Edwards.

“Cultivating a measured plan of investment for the two facilities we will deliver additional capacity for our plastic injection moulding and toolmaking services, allowing us to grow as a medium size employer within the local area. We strive to deliver customer satisfaction, be a proactive member of the supply chain and enhance our business services to the benefit of our customers.”

The £750,000 investment was self-funded through working capital and Pentagon says this is testament to the ethos employed by the owner, management and staff across the facilities.

T 01403 264397

3M BIC unveils new advanced technologies

The 3M Buckley Innovation Centre (3M BIC) in Huddersfield now provides a holistic approach to product development, allowing businesses to design, make and measure products through new technology such as metal additive manufacture (MAM), imaging and microscopy.

New equipment includes, two selective laser melting (SLM) systems that can print in stainless steel (316L) and titanium, as well as advanced in-process monitoring abilities to view and analyse a build for consistency or anomalies in real-time.

Its new Zeiss Imaging Sube boasts microscopes for biological studies and part investigations such as surface roughness and topography characterisation, as well as X-Ray CT for the precision measurement of internal and external features and identifying anomalies in products.

Michael Wilson, 3M BIC general manager and HIP director, said, “We now offer the whole package, from prototyping in plastics and metals to correcting imperfections in products. Businesses can ensure new products are cutting edge and safe before embarking on large scale production.”

The new equipment is part of investment through the Huddersfield Innovation and Incubation Project (HIIP), a £2bn grant from the Leeds City Region Enterprise Partnership (LEP) Growth Deal – a £2bn package of government investment to accelerate growth and create jobs across Leeds City Region.

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New Anti-Corrosion Coating for Rare Earth Magnets

Neodymium Iron Boron magnets are utilised in a wide number of industries, including the highly demanding wind turbine industry. A multitude of these magnets are bonded together to increase the overall level of magnetism. This process leads to two potential issues: firstly, any adhesive or coating between the magnets acts as an air gap and thus reduces the level of magnetism and secondly NdFeB magnets corrode extremely aggressively. This corrosion issue is exacerbated by the environmental conditions that the wind turbine faces.

This corrosion mechanism for NdFeB magnets is detailed in figure 1. This shows that when exposed to water or humid conditions, the Neodymium rich layers at the grain boundaries react to form Neodymium Hydroxide. The effect of this conversion from Nd to Nd(OH)₃ is a large volume increase along the grain boundaries, leading to cracking and degradation of magnet properties.

Curtiss-Wright Surface Technologies (CWST) has been working on a solution to these issues. This involved developing a high grade anti-corrosion coating with minimal coat thickness (effective air gap). The current market leader for corrosion protection is CWST’s own Everlube 6155 providing 500 hours protection in the ASTM B117 salt spray test.

After extensive studies and trials, CWST is pleased to announce it has successfully developed a coating system which will provide 1,000 hours salt spray resistance for NdFeB magnets at a coating thickness of just 25um. This NEW coating system – Everlube 1155 is environmentally friendly, easy to apply and a cost effective solution to this critical problem. Please call on +44 (0)1386 421444 for further details.

Figure 1: Shows the corrosion mechanism for NdFeB rare earth magnets.