If you’ve been sceptical about 3D printing or additive manufacturing, it’s time to think again, as Paul Croft, 3DBIRE Director explains why additive manufacturing is revolutionising manufacturing, design & short-run production.

“The speed of 3D print development over the past few years has frustrated and excited in equal measure. No one would deny the compelling vision presented by a technology that offers the chance to essentially manufacture on demand or the prototype opportunities enabled by low cost desktop 3D printers.”

“At the same time, there have been constraints that have delayed adoption, even deterred companies. From lack of access to appropriate materials to a limited understanding of the potential of the technology, many firms’ perception of 3D printing is still rooted in the early forays into the market a decade ago.

This year, however, a number of critical innovations are coming together that herald a new era in 3D printing and its cognate technologies. From the interaction of 3D printing with AI and machine learning; to immediate access to tens of thousands of chemicals for new material development; and proven models that blend AI driven Generative Design with 3D printing and traditional manufacturing.

3D printing is now a proven, robust, repeatable and reliable technology that is complementary to existing and manufacturing processes – and companies can now think laterally about the way in which solutions can be blended into existing processes to address a range of issues.”

This is an incredibly exciting time for anyone involved in product design or maintenance manufacture.”

Value Added Reseller of the Year 2019 at the 3DPI awards, 3DGBIRE are 3D printing experts specialising in additive manufacturing solutions for industry. They offer a 360° customer experience, including: training, service and maintenance packages and a dedicated technical support team. They are committed to successfully integrating printing into business and manufacturing industry workflows. As the exclusive UK Distributor for brands such as Ultimaker, Kodak, Raise 3D, JCR 3D and Photocentric, they have developed a reputation for quality, they are also focused on pioneering the future of 3D Printing, offering the newest and most innovative filaments and printers.
Henry Howard Finance support companies affected by the London Ultra Low Emission Zone

Since April 2019, older vehicles that are not Euro 6 compliant face additional or higher charges when they enter London’s latest congestion zone. Birmingham, Leeds, Glasgow and Manchester have also recently announced clean air zone charges.

Unlike current congestion charges, however, these additional charges will operate 24 hours a day, every day.

Marie Dunkley, Head of Hard Asset Finance at Henry Howard Finance, explained: “Even within the first three months of ULEX, these charges are having a massive effect on the bottom line for many couriers and delivery drivers.

“Small businesses with fleets of older vehicles or who regularly used to drive into these cities in the night or early hours to avoid the congestion charge are now finding themselves subject to this extra charge.”

The Euro 6 standard sets out the acceptable limits for exhaust emissions as defined by the European Union, with all new cars sold since September 2015 required to comply.

Drivers whose vehicles are already compliant with Euro 6 therefore need not worry as the exhaust emissions meet ULEZ standards – while those with older vans which don’t comply are facing hefty extra charges if they drive into central London regularly.

Vehicles which aren’t Euro 6 compliant are being charged an extra £32.50 a day on top of the congestion charge for a van of £11.50. The ULEZ charge replaced the older T-charge which affected older vehicles that didn’t comply with emission standards.

Most commercial vans manufactured post 2015 will now be Euro 6 compliant too, as it is, older vans could well fall foul of these new charges.

Those failing to comply with the additional charge or who miss paying the extra charge could also find themselves having to pay a £160 fine as a result.

For more information on Henry Howard Finance please contact 01633 415222 or visit www.henryhowardfinance.co.uk.

Keep your cool with the HardCap Aerolite®

The HardCap Aerolite® from JSP is the lightest, best performing, full shell Bump Cap on the market weighing less than 310g without compromising on performance. It is designed to be worn in warm environments, where there is a risk of impact to the front, top and also scuffs to the sides of the head from stationary objects. The sleek textile cover has large open woven panels to facilitate the transfer of cool air to the head reducing heat build-up and discomfort making it one of the coolest caps on the market.

Understanding the textile cover is a tough HERE shell and a lightweight EPP impact liner offering class leading impact performance. The HardCap Aerolite® looks stylish and feels good to wear with the added padding for extra comfort and optimum fit. The padding is replaceable and the comfort pad and sweatband are moisture wicking to move sweat away from the skin.

The Polygiene® treated sweatband and foam-cushion comfort pad guard against the growth of bacteria, fungus and mildew reducing skin irritations and odours and therefore requiring less washing. The Polygiene® treatment is permanent and effective for the lifetime of the product. Wear more and wash less® – Polygiene® treated garments can be used more times before washing and can be washed at lower temperatures which means that you save energy, water, time and money.

Tested to BS EN 812, the HardCap Aerolite® consistently exceeded its requirements, recording an averaged transmitted force of just 50N – well below the maximum 15kN allowed by the standard. It was also successfully tested at temperature extremes of -40°C and +50°C, making it the best-performing full-shell bump cap on the market.

Labtech’s cast film extrusion

Labtech is pleased to announce that they have custom built a new cast film line which was developed for the electronic industry to be used for production of a very special embossed and laminated thick film. It is comprised of a front 3-roll rolling stack where the top roll is covered with rubber and the centre steel roll is engraved with the embossing pattern. The second 2-roll stack is then used for lamination.

Also available from Labtech is their new vertical machine direction stretching unit – supplied in 4 sizes from roll widths of 350mm to 800mm. Fixed width or fed by pre-produced films in rolls, they can be used with single or multi-layer film. Depending on film composition, the film can be stretched up to 10 times with either one or two stretching stations.

Labtech offers a large range of cast film and sheet lines, both in single and multi-layer versions up to 9 layers, and with die sizes from 100 to 800mm. They can be used with single as well as twin screw extruder sizes from 32mm to 45mm, and can be supplied in high speed versions up to 100 meters/minutes.

Labtech is exhibiting at the K show in Dusseldorf on booth 7.1 C37. Come along and visit the booth to see the standard and ultra-micro versions of their single layer and multi-layer cast film lines. We will be fully operational during the exhibition.

www.millmerran.co.uk
Mapei’s Silancolor Tonachino Plus is a fibre-reinforced silicon resin-based coating, ideal for internal and external surfaces that can be affected by the growth of algae, mould and fungus. It comes in a paste form with good filling capacity, making it perfect for a contemporary finish.

The double synergic action carried out by the components contained in Silancolor Tonachino Plus eliminates the causes which create conditions favourable to the growth of microorganisms, and instead offer excellent protection for the facade due to it containing a special agent that controls growth.

Silancolor Tonachino Plus is particularly ideal for protecting deteriorating or north-facing facades due to its excellent repellence to water and its resistance to UV rays, cracking, and ageing. Its special formula silicon mean substrates have good permeability to water vapour and are highly water-repellent. Unlike conventional synthetic coating products, it forms a porous layer rather than a film which is impermeable to water vapour, while the special silicon resins contained in the product form an excellent barrier against the penetration of water, so that the render always remains dry.

Available in various grain sizes, including new 1.5mm, it combines the advantages of mineral coating materials for high breathability, as well as those of synthetic coatings for a uniform colour, and excellent adhesion to old paintwork (depending on its condition). It is also available in colours obtained using the ColorMap® automatic colouring system by Mapei for your ideal match.

Silancolor Tonachino PLUS by Mapei

Mnews to bring clubhouse and changing room facilities in line with Llanishen Rugby Club’s brand new, state of the art 3G pitch were potentially out of reach until they approached Henry Howard Finance. Unseen additional excavation costs had stretched their budget and also put new changing rooms in doubt. As the project progressed, it became clear that an innovative approach to funding would be required. Investing in an international size 3G pitch at Llanishen rugby ground proved problematic when it came to building a much-needed clubhouse and changing facilities. Installing the pitch and additional costs involved in excavating the proposed clubhouse site was within the club’s budget. A base-level of funding was required, however, for local company Clarks Modular Building Ltd to get the clubhouse project underway at all – which is where Henry Howard Finance stepped in.

Ellis John, MD at Clarks Modular Building Ltd, said: “Llanishen approached us to see how we could assist them in staged payments. I had worked with Henry Howard Finance previously and was well-aware of their flexibility and approach, and we managed to come up with an agreement which enabled Llanishen to get some assistance with initial funding.”

John Andrews, Club Secretary, said: “Having to dig into the ground, and having to establish something with flood lighting so close to a residential area – it all created extra cost and meant we had to go back to the calculator and start adding up again. Nobody from Henry Howard Finance shied away from the challenges we were facing though, they looked both sympathetically and constructively at solving those issues.”

Matt Jones, Head of Asset Finance at Henry Howard Finance, said: “Helping Llanishen Rugby Club and Clarks Modular Building Ltd to get this clubhouse project underway at all – which is where Henry Howard Finance stepped in.

Llanishen Rugby Club & Clarks Modular Building Ltd
Shippers and freight forwarders must adhere to rigid timetables and organisational intricacies in order to maintain the smooth running of freight operations. Ocean Insights has developed two innovative software programmes that take on the burden of maintaining supply chain visibility. Through close working relationships with Beneficial Cargo Owners (BCOs), Ocean Insights has observed the complexities of current supply chain logistics systems and learned of where they fall short.

The practices that shipping companies depend on to record data, track containers and update transportation management systems (TMS) are growing increasingly outdated. With a notable number of companies still relying on manual processes to orchestrate the logistics of their overseas operations, the ocean freight industry is becoming to wane. However, hope is not lost. Ocean Insights has developed a data driven solution designed to ease the process of ocean freight transportation.

The solutions that Ocean Insights provides offer a wealth of benefits that simply cannot be obtained via manual processes. By consolidating and evaluating global data Ocean Insights allows users to optimise their inventory and allocate resources more appropriately, ultimately saving unprecedented amounts of money. The Container Track & Trace software notifies users of any changes in status, for example approaching the point of departure (POD) or delay warnings etc. All of the data gathered by the software is in real-time, which ensures that all information gathered is relevant.

Through Ocean Insights, users can compare a shipper or freight forwarder’s actual service with the one promised to identify how efficient a company is. Subsequently, if a company is falling short of its promises, the Ocean Insights customer can gain greater leverage when negotiating future contracts with that company.

Another significant facet of using Ocean Insights is the savings that can be made on demurrage and detention costs. As is often the case, demurrage and detention costs can occur as a result of incompetence on the part of ocean carriers as opposed to the customer themselves. Subsequently customers can end up paying extortionate daily rates for mistakes they didn’t make. With Ocean Insights, the potential for this happening is almost eradicated.

Ocean Insights is always looking to further develop its software, ensuring that the customer is always receiving the most up to date technology. With a team of experts and data analysts Ocean Insights has the capacity to produce the most innovative of solutions.

Ocean Insights rules the waves

Industry Update is delighted to announce as our Global Logistics Company of the Month, Ocean Insights, for its unwavering dedication to bringing the ocean freight industry the most innovative and efficient solutions.

Keeping your skin healthy is an integral part of keeping yourself healthy; however the range of skincare treatments we are bombarded with can be somewhat overwhelming. Deciding which one is the right treatment for you can be a difficult task, especially given the regrettable processes that go into the testing and manufacturing of certain products.

The change also came about as a response to the current supply of magnesium as opposed to soda. Magnesium is kinder to the skin than soda, and greatly enhances the performance of the deodorant. The change also came about as a response to the small (but no less important) number of individuals sensitive to soda, as customer wellbeing is at the core of Science’s philosophy.

Krista Taylor tells us “Things are happening very quickly now and I particularly love being part of a growing family of eco-conscious and caring people that run retail businesses focused on bringing alternatives to their customers.” Ensuring that consumers are offered cleaner and greener ways of caring for their bodies is what drives Science, and it’s this honesty that sets the company aside from its adversaries.

Science intends on becoming a market leader with its plastic free, premium brand skincare range, and it isn’t a hard thing to envision. However in order to achieve this, brand presence must be bold. Raising visibility is not something Science is going to struggle with. With a robust marketing plan Science is on track to reach the dizzying heights it’s capable of reaching.

To purchase Science Natural Skincare products or to learn more about the company visit the website below or get in touch via the details listed.

Contact
T 0049 381 445 900 70
getintouch@ocean-insights.com
www.ocean-insights.com

After having notable success throughout the European and Asian markets, the company plans on expanding its reach to the USA. With the company already having some business in the USA, there is a definite foundation upon which to build.

Ocean Insights offers the most updated processes and technology, giving its customers the opportunity to maximise profits and minimise human error. Companies such as Ocean Insights are rethinking the manner in which we do things, and pushing the boundaries of business capability to their limits. The future for Ocean Insights looks nothing but bright.

For more information on Ocean Insights, visit its website or get in touch via the details listed below.

Contact
T 0049 381 445 900 70
getintouch@ocean-insights.com
www.ocean-insights.com

Scence was founded by Krista Taylor in 2013. The company was created with the vision about what the future of packaging should look like. I spent four years developing and designing the range of Science products working alongside a UK paper packaging manufacturer to create plastic free, fully compostable paper tubes and jars.

Science offers a varied range of skincare and hygiene products, all of which have come as a result of Krista’s wealth of knowledge, now furthered by the addition of three team members. The company produces body moisturisers, face balms, lip balms, deodorant balms and hand balms, all designed to have the largest effect on you and smallest effect on the environment around you.

Recently, Science has reformulated its deodorant range using magnesium as opposed to soda. Science is a company worth keeping an eye on. All of the ingredients that go into Science’s products have been selected with care and purpose and are (where possible) organic. What’s as impressive as the treatments the company has created is the packaging it uses to contain them.

Company founder Krista Taylor explains “We had a vision about what the future of packaging should look like. I spent four years developing and designing the range using magnesium as opposed to soda. Science is a company worth keeping an eye on. All of the ingredients that go into Science’s products have been selected with care and purpose and are (where possible) organic. What’s as impressive as the treatments the company has created is the packaging it uses to contain them.

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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 25μm. 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.
Handling, Storage & Logistics Update

Energy-efficient battery charging for supermarket’s new DC

The Italian supermarket chain Ali has a fleet of more than 350 electric forklifts at its new DC. It chose to power its fleet using battery charging technology from Fronius. It deployed selective devices with its energy-efficient and gentle Ri charging process, and the Intelligent Cool Battery Guide Easy management system, which all uses to optimise the utilisation of its battery pool.

The battery charging room is equipped with a total of 44 selective chargers with power ratings of 29kW and 8kW.

With the Ri charging process developed by Fronius, these are particularly frugal in their power consumption and are gentle on the batteries. The cool battery guide easy system improves the utilisation of the battery pool significantly.

A control unit processes the data from the individual chargers and uses a blue LED strip on the device to show which battery has been fully charged the longest and is therefore the coolest, intuitively guiding employees to the right battery.

T 01908 512300
Wharton.kim@fronius.com

Meachers Global Logistics invests nearly £2m in additional vehicles to support increased demand

Meachers Global Logistics, one of the UK’s leading independent providers of transport and logistics services has announced it has purchased yet another 12 tractor units at a price tag of over £750k, 25 trailer units at a price tag of nearly £500k and will take delivery of five more tractor units later this year to total nearly £2m in investment.

The investment by the Southampton and Derby based business, will provide the Company with significantly increased capacity to supply its current growing operation across both locations.

Meachers has taken delivery of both Volvo DHR’s and new DAF’s, which significantly strengthens its fleet. The purchase follows Meachers Global Logistics recently securing a number of high profile contracts as well as extending existing contracts. The vehicles will be predominantly based out of the Southampton facility which has grown in staff numbers yet again at the start of the year.

Jamie Terris, Meachers Global Logistics, Fleet Director said: “We have experienced a strong period of growth already in 2019 and this is reflected in our fleet replenishment programme. The move reflects a desire to strengthen and grow our fleet and this strategy is expected to produce significant operational benefits to the business.”

Meachers Global Logistics is one of the UK’s leading independent providers of logistics services. For 60 years, the company has built an enviable reputation by providing customers with complete solutions to their Freight Forwarding, Supply Chain Management, Warehousing, Distribution, Logistics and Contract Management requirements.

T 023 8073 9999
www.meachersglobal.com

Temperature-sensitive goods

Upgrading industry standards when storing and transporting temperature-sensitive goods is a substantial challenge for many businesses. Installing a comprehensive environmental monitoring system provides an easy solution. FilesThruTheAir offers a range of wireless temperature and humidity data loggers with the power to automatically record and store data, raise alarms, and facilitate remote access via the cloud. Each data logger can be configured to record data as frequently as required (anything between every 10 seconds and every 12 hours), raise alarms via email whenever any logger records readings outside a specific temperature or humidity range.

Prompt knowledge of incorrect environmental conditions allows for fast response, potentially saving damage to valuable goods.

Using FilesThruTheAir’s WiFi enabled data loggers, it is possible to monitor, manage and analyse data (live and historical) on the FilesThruTheAir Cloud portal via a range of devices including smartphones, tablets and PCs. Furthermore, this automatically provides accurate and consistent data records, thus proving your business’ due diligence in upholding industry standards without any of the manual data collection and consequent paperwork.

To find out more about the various temperature and humidity monitoring solutions available, contact a member of the FilesThruTheAir team on +44 (0)1425 651111 or visit www.filesthrutheadir.com
Chicago Pneumatic: People, Passion, Performance

Industry Update is proud to announce that Chicago Pneumatic has been selected as our Power Tools Company of the Month. Chicago Pneumatic has a proven history of offering reliability and innovation for its customers, asserting its status as a brand which represents products engineered for high performance and excellent customer value.

As a global manufacturer, Chicago Pneumatic has 23 customer centres across the world, three logistic hubs, three research and development facilities, and over 10,000 local distributors worldwide.

Having built a stellar reputation within industry for its leading pneumatic and electric tools, Chicago Pneumatic is dedicated to constant innovation. “Our people start every single day with a passion to research, develop, manufacture and deliver new products that are meant to meet our customers’ needs not only today, but tomorrow as well,” explained Tony O’Donnel, Business Unit Manager. “This ability to create a product which is specific to the customer’s needs is what creates value and return on their investment.”

As well as its dedication to R&D investment and education for its distributor partners and users, Chicago Pneumatic boasts a diverse product portfolio, offering solutions for varying levels of usage, from intermittent maintenance all the way up to heavy industrial and manufacturing applications where the tool is used between 8–24 hours a day.

What’s more, Chicago Pneumatic has developed a range of digital tools to enhance customer experience. Its eCommerce platform, CP Connect, allows customers to see products pricing and availability, delivery lead times, and place and track orders directly from logistic hubs. Furthermore, the website hosts Chicago Pneumatic’s ‘Expert Corner’. This includes monthly articles sharing knowledge on a range of topics, including health and safety, hand arm vibrations, and how to choose the right tools. Customers are encouraged to subscribe directly on the website to ensure they benefit from this excellent resource.

Chicago Pneumatic has established a memorable brand promise: People, Passion, Performance. “‘People’ is about relationships, emphasising that Chicago Pneumatic has established a memorable brand promise: People, Passion, Performance. “‘People’ is about relationships, emphasising that ‘Performance’ is not only about the product, it is about delivering with the promise of consistent quality, thereby creating greater value for our customers,” said Tony.

Every few years we enter a new strategic period, reviewing what we have done before and how we can improve in the future. Previously we have been guilty of trying to be everything to everyone, so our new strategy is about focusing on our strategic markets and core business offering disruptive innovations. A key part of this will be our people development, and a new interesting initiative that is being rolled out in support of this is ‘Active Growth Mind-set’. This understands the difference between fixed and growth mind-sets, understanding the brain is a muscle and that through training, intelligence can be developed; never give up, embrace change and obstacles, and see them as opportunities for learning.”

For more information, head to the website or get in touch using the details below.

Contact: UK Sales Office
T +44 (0)1442 838999
F +44 (0)1442 838989
cp.ukinfo@chicagopneumatic.com
www.cp.co.uk
Follow us at: Twitter / LinkedIn / YouTube / Google+ / Instagram

Ideal Power has the solution you need

As this issue’s Electronics Solutions Company of the Month, Industry Update has chosen Devon and Peterborough based Ideal Power. Finding high performance, high end electronic components can be a confusing and unnecessarily long process. Regardless of the capacity within which the components will be used (home appliances, office equipment, medical solutions) sourcing reliable and quality assured components is a challenge. With vast expertise in specifying, sourcing and supplying an extensive range of power supplies Ideal Power is a one stop shop for all your electrical power solutions.

The company offers bespoke power supply solutions which allow for the production of high quality and revolutionary products. With a technical support team boasting an acute knowledge of a broad range of products, Ideal Power works with the customer to ensure an outcome that meets their needs exactly. The kind of service and products that Ideal Power provides stretch across a wide range of industries including instrumentation, railway, information technology and medical to name but a few.

Ideal Power takes great time and care to secure the right product for the right customer. All of the qualification, certification and logistics are taken care of by the company, saving the customer valuable time when purchasing the products they require. The kinds of products that Ideal Power offers its customers cover all manner of needs. From AC/DC converters to Battery Charger Applications Ideal Power has it all. Such depth of inventory renders a company like Ideal Power an essential contact for any business reliant on the purchase of electronic components.

The company offers two delivery options, both of which make life easier for the customer. The first is a just-in-time service, wherein Ideal Power guarantees that the customer is in receipt of their order in time for when the order is required. Despite this delivery service being common among distribution companies, Ideal Power executes the service with precision and efficiency that is rarely found among its adversaries.

The second option is somewhat more unique. Ideal Power’s Kanban delivery service is ideal for customers working on a more flexible basis. Within the Kanban service customers can buy a product in bulk, and secure the stock that they buy for themselves. However Ideal Power will store the customer’s stock for them and they can take as much as they want as and when they need to. This kind of customer focus has led to Ideal Power garnering a reputation as one of the most customer friendly and reliable suppliers of its kind.

To add to its seemingly never ending product line, Ideal Power is embarking on the introduction of LED drivers, Medical Power Supplies and Outdoor Power Supplies. The drive to bring its customers the latest and most innovative products sets Ideal Power aside from its adversaries. Ideal Power also plans on branching out globally and extending its customer reach to a more international demographic. For more information on Ideal Power see the details listed below.

Contact
T 0845 260 3400
salessupport@idealpower.co.uk
www.idealpower.co.uk
Isabellenhütte IVT-S module series

Rhophoint Components are proud to present the newest addition to their portfolio, the exciting IVT-S modules with potential to revolutionise a range of industries, combining the highest quality current measurement shunt with digital processing into a compact package for a reliable plug-and-play solution. The Key features include:

- Communication via CAN interface
- Accurate measurement of current, voltage (optional), temperature, power (optional), including energy (optional) and current counters
- Isolation of up to 1000V
- Choice of 5 voltage ranges (100A to 2500A DC)
- Optional voltage measurement channels and extra CAN channel to enable daisy-chaining available

These modules are increasingly becoming popular with critical industries where precision measurement is of paramount importance, such as EV and automotive. They are also suitable for a range of other industries, particularly for inverters, energy storage and other applications.

For more information please contact our sales team at sales@rhophointcomponents.com.

Crystal Tech Electronics: Bespoke, Display, Solutions

Initially funded by the governmental SME loan guarantee scheme, Crystal Tech Electronics was established in 2003, and has since acquired substantial funding from Hong Kong based Yeebo Display Ltd, and has subsequently broadened its shoulders significantly. Despite having offices, meeting rooms and stores in Basingstoke, customer service operations are orchestrated from Brno, Czech Republic. Overseen by Kristina, a multi lingual Bnco local and Crystal Tech operative of nine years, the Bnco base maintains relationships with China, Hong Kong and Singapore.

Crystal Tech produces from concept to container, bespoke electronic displays and touch panels, as well as offering technical and logistical support to a worldwide clientele for a range of products, including Prime Principal Yeebo Displays. Crystal Tech also provides plastic moulding and full turnkey manufacturing services. 60% of the company’s business is made up of companies within the professional medical market, with what’s left balanced between industrial and consumer markets.

Crystal Tech offers direct contact with its Design and Application teams, securing the highest quality solution for the customer, long term availability and low cost ownership from initial NRE. The company boasts a vast array of standard displays from 1.3” to 15.6” with CTP and high luminance back lights. Samples and preproduction quantities can also be purchased of nearly all standard displays in the UK and can if necessary offer no MOQ when either delivered throughout the UK/Europe or FOB Hong Kong.

Weighty investment has been placed in new display technologies and capacitive touch panels and fully automated robotic production lines, resulting in high yielding and quality products. Crystal Tech prides itself on a flawless delivery and quality record and global satisfaction to its name.

The company is currently focusing on IPS panels, with particular attention being paid to 2.4”, 2.8” and IPS 10.1” to 15.6”. Later this year the company will introduce its groundbreaking 3D technology, which produces full 3D images and videos without the user having to wear cumbersome glasses. This technology is set to completely revolutionise the 3D viewable and interactive experience. Crystal Tech’s main OEM customers are primarily involved in medical products such as blood glucose diagnostics, dental x-ray, vending and beverage machines, heating controls and theatre broadcast systems, along with others.

With regards to the ever changing market, and the inevitable oncoming Brexit turbulence, Crystal Tech’s Colin Saunders had this to say, “We are ready for any Brexit situation, with facilities in the UK and the Czech Republic. 90% of our shipments are direct from Hong Kong either to end customers, distributors or EGMs worldwide.”

The company will also shortly sign as agents to a major KOLAMS/FDA approved ECM in China, after gaining extensive experience in assembling millions of medical, telecom and e-banking products firstly in Malaysia.

Throughout the last 12 months, Crystal Tech has exhibited at Electronics in support of the Principal Yeebo products, and Southern Manufacturing, both of which concluded in resounding success. During 14–16 May, Crystal Tech will exhibit alongside their Dutch distributor Top-Electronics, at ECM Utrecht, Jaarbeurs, as well as at Northern Manufacturing in November. Future plans for the company include the vertical integration of plastic housing, SBC/SOM/SOC components and complete assembly.

For more information please contact our sales team at sales@rhophointcomponents.com.
Industry Update is proud to announce that Hermann Sewerin GmbH has been selected as our Measuring Equipment Company of the Month. Since its establishment in 1923, the company has grown from a small workshop into a medium-sized enterprise, which is leading the way in developing innovative measuring instruments for the gas and water supply industries.

Based in Gütersloh, Germany, Hermann Sewerin GmbH is a truly global company, with subsidiaries in France, Spain, Portugal, Poland, and the UK, as well as distribution partners in over 90 countries. Indeed, this worldwide presence is central to the company’s success throughout its extensive history, as Sandra Ooms, Marketing, explains.

“Securing the regular market and the consequent internationalisation are important factors for our growth. At the same time we stand out globally due to our cultural openness. Our foreign subsidiaries play a crucial part in our internationalisation. We concentrate on those countries which, based on our market analyses, are important to us. We want to achieve a leading market position in these countries.”

Sewerin’s main area of business is in the development, production and global distribution of measuring equipment for: gas leak detection, gas concentration, gas leakage amount measurement, and warning of lack of oxygen, toxic gases and risks of explosion; water leak detection; and pipe and cable location.

What’s more, Sewerin also offers a network survey completed by its own measuring teams, offering both a stationary and mobile device maintenance service, the development of emergency and leakage service vehicles, and the servicing and repair of home installations.

“Except from a few bought in products, Sewerin instruments are exclusively made in Germany,” explained Sandra. “Our products are of an exceptionally high quality and we offer an extensive service to our customers. Furthermore, innovation is crucial to our success, and due to this we play a leading part in our industry. An effective innovation process gives us the basis for this. We focus on core products and markets, and our advice and service make our products unique.”

Indeed, as proof of this philosophy of constant innovation, in September Sewerin is launching the new EX-TEC® 580/550/500 instrument family. This will be a set of portable gas concentration measuring devices for detecting, measuring, and warning of gas leaks. “Our products are developed in close cooperation with customers and research institutions, thus we constantly extend and deepen our expertise,” Sandra added.

A factor of the company’s success over the past 96 years is its dedication to creating a community spirit among its staff. “We are a medium-sized family-run company which feels very close to its tradition and its home in Gütersloh, and we use our expertise for social projects throughout the world. Our staff are at the heart of the company, with justice and non-discrimination, credibility and reliability shaping our cooperation. We are aware of the fact that mutual trust and loyalty are closely connected, and we value our staff’s qualifications and knowledge gained by experience. Our decision-making processes are transparent and comprehensible, with responsibilities being clearly defined.”

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

T +49 5241 9340
www.sewerin.com

Industry Update is pleased to announce Havwoods, a leading curator and distributor of premium flooring solutions.

The floor of a room is often what brings the space together, and there is seldom a floor more pleasing to the eye than a well finished, expertly laid wooden floor. However, many businesses are always looking to cut costs where possible so finding a company that can provide wooden flooring of a worthy standard is becoming increasingly challenging. Havwoods’ flooring exceeds standards that can be deemed merely worthy, and instead strives for excellence.

Established in 1975 by the Whiley family, Havwoods is built on a wealth of experience, knowledge and a dedication to providing its customers with flooring solutions of the highest quality. With a reputation as being a leader in its field, Havwoods brings both technological and aesthetic innovation to the table, with notable amounts of time being spent on research and development in order to constantly improve on products.

As a curator and distributor of wooden planking, Havwoods supplies the design industry with the most seamlessly stunning wooden flooring available. From contractors to architects, Havwoods is renowned for the quality of both its products and its service. The company has showrooms both nationally and internationally, wherein customers can explore the innovative and wide-ranging Havwoods collection.

Havwoods maintains a large stockholding in order to ensure that vast numbers of its products are kept ready for immediate shipping. The delivery service that the company provides is fast and efficient.

For customers that need time to orchestrate the logistics of installing or storing products, stock can be reserved for up to three months, with the option of longer times available by arrangement. For projects of a larger scale, warehouse space is made available to enable delivery to be carried out in manageable chunks that suit the schedule and the facilities of the customer. In the UK alone, Havwoods hosts two showrooms in London, one in Manchester and one in Camforth. However, they can be found all around the world. Recently, Havwoods opened a showroom in Toronto, the company’s first branch in Canada, which is a testimony to how ambitious Havwoods is.

Along with the introduction of a new showroom the company has seen the introduction of a new Sales Director. Vincent Guillon plans on expanding Havwoods’ global reach, working with international brands and ensuring that Havwoods can offer its innovative range of products to an even broader market.

For more information on Havwoods and its vast range of flooring solutions, visit its company website or get in touch via the details listed below.

Contact
T 01524 737000
info@havwoods.com
www.havwoods.com

Flooring Solution Company of the Month
Thomson Industries has launched an online tool that helps design engineers to select and size electric linear actuators. The Linear Motioneering tool asks them the same kinds of questions about mechanical, electrical and control requirements that an application engineer would do. Based on their responses, it suggests the options that best meet their requirements.

The tool offers more options for voltage, stroke, control, adapter location and connectors than users might otherwise find. Help buttons provide extra information, tutorials and videos. The tool can also provide CAD models, documentation, as well as information on pricing, lead times and spare parts.

T +49 7022 504 198
www.thomsonlinear.com

In order to support employers’ compliance with the recent HSE welding fume update, Impact Technical Services are offering a free site assessment to UK businesses who are concerned their current efforts are no longer adequate.

Impact Technical Services provide LEV systems, equipment and testing to completely remove the hazardous fume from the working area. We are specialised and experienced at dealing with this type of welding fume and are on hand to ensure you are fully compliant and protecting your workforce.

The free assessment includes a site visit by an experienced LEV technician who will check and advise you on your current fume control methods to ensure you are adequately protecting your workforce.

The HSE announcement, dated February 2019, explains that while general ventilation was deemed adequate protection from mild steel welding fume, it is now insufficient and that Local Exhaust Ventilation (LEV) systems and Respiratory Protective Equipment (RPE) is required as a result of the findings.

With immediate effect, there is a strengthening of HSE’s enforcement expectation for all welding fume, including mild steel welding, because general ventilation does not achieve the necessary control.

If you have any queries regarding this update or would like to know more about LEV, extraction methods and air-quality testing, please feel free to contact us on: +44 (0)116 2448855 or email us at: enquiries@impactts.co.uk.

NSK has named its latest Certified AIP Partner, Coroll s.r.o., which becomes the first authorised distributor in the Czech Republic to receive the accolade. At an award ceremony on 13 May, the certificate was presented to the company’s management team, along with NSK’s ‘Man towards future’ award, which signifies impressive levels of progress. Coroll was nominated to become a Certified AIP Partner by NSK Poland.

With a focus on quality, Coroll is one of the largest distributors of bearings, ball screws and linear motion technologies in the Czech Republic. It was clear that Coroll had the potential to take the next stage in its development and become one of NSK’s growing network of AIP (Added Value Programme) Certified Partners. Only those distribution partners able to successfully complete a 10-stage plan can become Certified AIP Partners, a process that includes intensive training and in-field assessments. For Coroll, the programme involved a number of key stages, including situation analysis (evaluating and understanding the customer problem); designing solutions (including costings, return on investment analysis and other related information); implementation of the solution; calculating the actual savings; and extending the solution to other operations.

Expert NSK personnel delivered extensive training that focused not only on NSK products, tools and services, but a host of other pertinent industry issues such as effective maintenance and inspection, counterfeit bearing awareness, and future developments.

It was decided to trial Coroll’s newly acquired knowledge and skills at two customers in the steel industry: a cold mill producing sheet, and a rolling mill manufacturing steel tube. At the cold mill, an AIP project involving a reverse rolling quarto-stand produced annual costs savings of €56,921, while a project centred on punching equipment at the rolling mill generated savings of €32,820.

Contact
T +49 2102 4811280
nskinfo@nsk.com

Coroll becomes NSK’s first Certified AIP Partner

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Heilind Electronics has the product you need

Industry Update is proud to announce as our Electronic Distribution Company of the Month Heilind Electronics, for its commitment to delivering its customers the highest quality service and product range.

With the largest inventory of connector products in North America, Heilind is a one stop shop and world leader in the distribution of connectors, relays, switches, thermal management and circuit protection products, terminal blocks, wire and cable, wiring accessories and insulation and identification products. Established in 1974 by Bob Clapp, the Massachusetts based company has expanded notably as a result of consistent quality of service and strategic acquisitions. Since purchasing Brazilian distributor Kotek Electrónica in 2012, Heilind has opened offices in Singapore, Hong Kong, China and Europe.

Heilind acknowledges the significance of a deep inventory and ensuring that the product a customer requires is always one it has to offer. The company’s customer service team is one of extensively experienced and knowledgeable members which enables the customer to work with Heilind to find the solution or solutions that best suit their needs. The company provides both one stop shopping and technical consultancy making it ideal for those with a clear idea of what it is that they need and those that are in need of some direction. The investment that Heilind has poured into obtaining such a deep inventory eradicates the time and often complexity of having to deal directly with a manufacturer which in turn, leads to customers receiving the products they require speedily and efficiently.

Heilind has been ranked number one in overall customer satisfaction by Bishop and Associates for six consecutive years, which only reaffirms the values that the company adheres to upon dealing with its customers.

Ensuring that the company keeps to a simple and effective process as well as maintaining solid relationships with both its customers and its distributors allows the company to remain consistent in securing customer satisfaction. Marketing Manager Klaus Kerschensteiner tells us “Heilind believes that the role of the distributor is to buy from its suppliers in volume and to then break that volume into smaller quantities to meet the demand of the customer irrespective of the size of the customer. This means that the volumes we sell in vary from one to thousands and with this mix of business we are able to meet the customers’ needs of the smallest cable assemblies to large scale manufacturers.”

Heilind offers a diverse range of products that serve an equally diverse range of industries and sectors. Products that have been distributed by Heilind can be found in the automation, information technology, medicine, smart home, heavy duty vehicles, aviation, aerospace, white goods, green energy, marine, robotics, industrial, transportation and defence/military sectors. Regardless of what sector your business falls in to, you can be sure that Heilind distributed products adhere to a rigid code of health and safety with extra precautions taken when serving aerospace and military companies. All products supplied by Heilind meet the relevant legal requirements and certification needed to be deemed safe to use.

Unlike multiple companies of a similar nature, Heilind doesn’t require a minimum purchase quantity which allows smaller customers to capitalise on the company’s extensive product line without having to rack up bills that exceed what it is necessary. For customers that are wary of trying new products or unsure as to what exactly it is that they need, Heilind offers a prototype sampling service allowing customers the opportunity to find the product that suits both their needs and their budget as fittingly as possible. The flexibility with which Heilind delivers its services is what has allowed the company to build and maintain such a large customer base and what has led the company to becoming one of the world’s leading suppliers of such a wide range of products.

Over the last 12 months Heilind has paid close attention to ensuring that it has the infrastructure required to necessitate growth in DACH before expanding elsewhere. Cultivating the intricacies and complexities of the infrastructural matter of a business can be as challenging as it is exciting and Heilind has not fallen short of the challenge. The investment that the company has made in its infrastructure is indicative of the company’s growth plans being beyond that of the market. This kind of ambition is what drives great businesses to excel and is certainly not aiming too high for a company like Heilind. With new sales offices, warehouse expansions and a doubled workforce Heilind’s brand presence is more prolific than ever. As a result, at the beginning of this year Heilind embarked on a programme expanding to Eastern European countries. As well as Eastern European expansion, Heilind is currently in the process of opening a new sales office in Stuttgart, Germany. Heilind’s drive towards expansion is clear.

With a growing reputation among European markets Heilind is fast becoming the go to global distributor for electronic accessories. Having established a network with suppliers that stretches worldwide and a customer base that only proceeds its gleaming reputation, Heilind is set to not only maintain but to expand on the quality of service that it offers and the number of customers that it offers it to. With adaptability and helpfulness at the core of its practice the company has left its customers feeling beyond simply satisfied. Heilind plans on exhibiting at various trade shows throughout the foreseeable future; notable mentions being MSPO in Kielce and Space Tech Expo in Bremen, Germany. Upon receiving our Award Klaus Kerschensteiner said this, “To be featured as Industry Update’s Company of the Month only reflects the growing reputation of Heilind within the European market and motivates Heilind to further embrace the direction taken.” For more information on Heilind’s products and services see the details listed below.

T +49 8063 8101 100
www.heilind.com
UNISIG Deep Hole Drilling Systems

The machines boast a sustainably stronger milling capacity, and offer robust support for indexable gundrill tools as well as some BTA tools, which halve production times for mould manufacturers, thus maximising profitability and production capacity. USC-M series products offer an extensive spectrum of solutions for manufacturers; these solutions include heavy weight table capacities, automatic tool changers, a rotating A-axis, and intuitive controls on each machine. There is a diverse range of capacities and options, with either universal or dedicated spindles.

UNISIG offers an express delivery service that allows quick shipment of all of its standard models, all of which will have been tested rigorously at the UNISIG tech centre. The test centre provides extensive prototyping services, which aid in reducing risk of new process development and are often the foundation upon which product development and improvement is exacted. If a customer requires a machine that can’t be found as part of UNISIG’s standard product range, the company offers bespoke solutions, wherein customer requirements can be met through custom built machinery, all adhering to the same disciplined standards as the rest of the UNISIG product line.

Over the last 12 months, the company has launched an additional five models in its USC-M product series. The machines offer deep hole drilling and milling centred for the mould industry, the machines are constructed, and to see for themselves the kind of standards that UNISIG adheres to when putting together its machinery.

UNISIG works closely with its customers to ensure that appropriate solutions are provided and requirements are met to the highest level of specificity feasibly achievable. The company boasts a lengthy history of achievement, through which customer satisfaction is consistently met irrespective of technical challenges. Regardless of a customer’s experience in deep hole drilling, UNISIG is happy to help, and consult customers on ensuring that they receive the most cost effective and efficient support possible. The company also invites its customers to visit its Wisconsin production facility while their machine is in the manufacturing process to witness how
Increase your mold manufacturing versatility using the power of gun-drilling with the leaders in deep hole drilling, UNISIG. Offering complete solutions for everything from simple to complex mold components, UNISIG machines help moldmakers improve efficiency, throughput and precision with outstanding part-processing versatility at an exceptional value.

TAKE YOUR MOLDMAKING OPERATIONS FURTHER WITH UNISIG TODAY.

Find out more at www.UNISIG.com
**Feminine Hygiene Company of the Month**

Natracare: Healthier by nature

Industry Update is proud to announce that Natracare has been selected as our Feminine Hygiene Company of the Month, for its pioneering development of plastic-free and environmentally friendly feminine hygiene products. Over 45 million menstrual products used every year, it is essential that the levels of plastic in these are reduced significantly.

In the 1980s, after learning about the dangers of diisowoll pollution and the damaging impact of plastics, founder Susie Hewson discovered that period products contained these pollutants, and that there were no environmentally friendly disposable options available. This fuelled Susie’s mission to research and develop a range of alternative period products, which respected both woman’s bodies and the planet.

In 1989, Susie established Natracare and released the world’s first brand of organic and natural period products, and the company is now celebrating its 30th birthday and 30 years of victories for women’s health. Since its inception, Natracare has developed 31 different lines including tampons, pads, liners, and wipes, as well as maternity and incontinence care. All of these are plastic free and made from natural materials, which are biodegradable and compostable.

The average conventional sanitary pad contains around 90% plastic, which doesn’t biodegrade; 1.4 million period products are flushed down the toilet every day in the UK, affecting marine life and littering the ocean and beaches with plastic. Furthermore, the plastic isn’t breathable, which can lead to intimate irritation, and because the plastic is so long lasting the products are often worn for too long, which results in unbalanced bacterial growth and other sensitive skin issues.

What’s worse is the fact that the inclusion of this plastic is wholly unnecessary. All of Natracare’s products are created using plant materials, which are entirely natural and compostable as well as providing all the absorption qualities needed. “Our products have no lasting impact on the planet, and they are also better for intimate health,” explained Ellie Hunt, Sales and Marketing Executive.

Recently, Natracare released the first safe to flush wipe, which is 100% plastic free and Fine to Flush Certified by WATERR UK. It is ideal for use with sensitive skin, created from a natural formula with no Sodium laurel Sulfate (SLS), Parabens or MLT, and is biodegradable and marine friendly.

Indeed, Natracare maintains its core value of sustainability in everything it does, and at the beginning of this month the company launched its partnership with 1% for the Planet. “We are the first feminine hygiene brand to join the organisation,” explained Ellie.

Natracare has always been a charitable organisation so we are very excited to be extending the work we do to support the environment.

In fact, in recognition of Natracare’s pioneering work, Susie has just won the Queen’s Award for enterprise. With a firm foundation of strong ethics and innovation to build upon, Natracare is intending to continue its valuable work in developing ground-breaking solutions for all of the issues associated with disposable hygiene products, helping to improve the health of both the environment and our bodies.

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

T 01454 613347
info@natracare.com
www.natracare.com

**Emissions Test Company of the Month**

‘Particles Matter’: Industry-leading emissions test equipment from Premier Diagnostics

Industry Update is proud to announce that Premier Diagnostics has been selected as our Emissions Test Company of the Month. Established in 1997 by Paul Brown and Mavis Connell, Premier Diagnostics has over 20 years of documented success in bringing industry-leading emissions test equipment to a range of customers, including fleet operators, service workshops, MOT test stations, and roadside testing agencies.

Holding world patent rights to its innovative range of equipment, Premier Diagnostics also developed the world’s first cableless Smokemeter. “We manufacture, service and install everything we offer, and have a team of engineers who go out and maintain the equipment at a customer’s location,” explained Tracy Lewis.

“Our key benefit is that everything we do is in the UK, we only service and maintain our own branded products and we don’t subcontract any of our work. This means that downtime for our customers is minimised; when we go to their site to repair the equipment, we have all the spare parts in the van ready to make sure they are up and running again.”

Indeed, Premier Diagnostics is built on a foundation of passion for road safety and a cleaner environment, and the company is driven by its customers’ needs. Premier Diagnostics understands that downtime can be expensive for its customers, and so its innovative equipment is designed and built by experts for a high volume of work while minimising maintenance requirements, efficiently serving the operator and its clients.

Recently, Premier Diagnostics developed its innovative DPF Tester, which detects DPF removal, manipulation and/or failure. This is carried out by measuring particular emission levels which are invisible when using conventional testing methods. It samples emissions during a short 30 second test at idle, reporting DPF efficiency against pre-set Euro limits, with a simple pass/fail result.

It uses an optical sensor based on light scattering to measure particle density emitted by diesel vehicles with a compromised DPF, ensuring such vehicles are identified for repair and maintenance.

“Diesel engines are receiving a lot of bad press because of their effects on the environment. But, if the DPF works in the vehicle, then the driver shouldn’t have to pay to enter Low Emission Zones. All of our DPF machines meet Euro VI standards and help to identify when the DPF of a vehicle has been tampered with or removed, as this can increase its emissions. We are the only company to offer a DPF tester, and we want to heavily lobby the relevant bodies to educate people about the use of DPF and the dangers if it has been removed, working on increasing awareness and trying to get the DVSA to make the DPF test part of the mandatory MOT test.”

Despite being a smaller company, Premier Diagnostics has an impressive range of accolades. “We are GEA members, all of our engineers are UKAS accredited, and even though we are a small to medium business with only 40 employees, we have a huge market share. Our repeat business is one of the best in the UK and we are dedicated to making sure people know about the importance of what we do.”

If you would like to find out more information on Premier Diagnostics’ full range of equipment and services, head to the website or get in touch using the contact details below.

T 01295 271985
www.premierdiagnostics.ltd.uk

Industry Update is sponsored by Heilind Electronics – see them on page 11.
Tango TX1, with two-year run time and DualSense Technology, is designed to increase worker safety, regardless of bump test frequency, while reducing overall costs.

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T +41 44 944 2211
www.mt.com

Now On-Air!

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

At a basic level, all standards including mass are now tied to fundamental natural constants. In the case of mass, the referenced value is the Planck constant, also known as the fundamental constant of quantum physics. In the 20-minute piece, Christian Müller-Schöll, METTLER TOLEDO, Dr Richard Davis, BIPM, and other metrology experts including Dr Philippe Richard METAS, explore the science behind the definition, as well as the nearly poetic way the definition was able to be proven. This combination of smart thinking and technological excellence has produced measurement accuracy that is accessible for all people in all places at all times.

Rare footage takes you inside areas normally reserved for only a few metrology experts to witness everything from the highly technical Kibble balance used to calibrate reference artifacts to equipment used to create the enigmatic silicon sphere that was also part of the proof. These strong visuals help to make real the ongoing discussion around the kilogram—a discussion that can seem largely theoretical, especially to those accustomed to dealing with physical weights.

To see a brief, exciting trailer for the video, please visit https://youtu.be/rBYO89_llE4.
To view “Everything Different, Nothing Changes” in its entirety, please visit https://youtu.be/%2kp097vJ3s

Buehler Metallographic Laboratory on the campus of the University of Warwick/UK

Buehler ITW Test & Measurement, a leading manufacturer of instruments, consumables and accessories for metallurgy and materials analysis, has opened a new European Solutions Centre in a collaborative venture with Warwick Manufacturing Group (WMG). Part of WMG’s Materials Engineering Centre at the University of Warwick campus, Buehler’s new Solutions Centre aims to support academic and industrial research on various technologies ranging from additive manufacturing, energy storage, machining and processing of metallic and composite materials to joining technologies.

The new laboratory is equipped with latest metallographic sample preparation equipment, including several abrasive and precision sectioning machines, high-end grinder-polishers and a spectral analysis system for chemical characterization of materials. Available equipment also includes Buehler’s latest hardness testers in varying degrees of automation and testing capabilities, and Nikon optical microscopes interfaced with Buehler’s own image analysis software for ideal metallographic analysis.

Introducing our upgraded Volumetric Flow Standard

At Chell Instruments you’re excited to announce we’ve upgraded our Volumetric Flow Standard. Commonly called a VFS, it is designed to act as a high accuracy mass and volumetric flow transfer standard, to enable easy and convenient verification of both mass flow and true volumetric flow at the point of interest.

We’ve put a lot of care into the design of our new VFS to ensure it enables a meaningful and reliable verification of both mass and volumetric flow rates. Volumetric Flow Rate is a measurement of the 3-dimensional space that a gas occupies as it flows through the instrument, and is affected by pressure and temperature at the point of interest.

Mass Flow Rate is a measurement of the number of molecules that flow through. Mass of a gas is unaffected by pressure and temperature.

Contact
T 01692 500555
www.chell.co.uk

Buehler Metallographic Laboratory on the campus of the University of Warwick/UK
Magnets and magnetisers at Cenex LCV 2019

Grain Boundary Diffused Neodymium Magnets, Magnetisers and Magnet Setters are the focus for Bunting on stand C109 at this year’s Cenex LCV show (4th – 5th September, Millbrook, Bedfordshire, UK).

Cenex-LCV is the UK’s premier low carbon vehicle event. The show features an extensive seminar programme and the opportunity to ride & drive the latest in-development and commercially available electrified vehicles. The Bunting stand is in the technology exhibition alongside Aston Martin, Robert Bosch Ltd, and TOYOTA.

Magnets in Electric Vehicles

The motive power in electric vehicles is provided by an electric motor, the mechanics of which are much simpler than that of an internal combustion engine as there is only one moving part. The rotor can be a number of technologies, but those that incorporate very strong permanent magnets, such as Neodymium Magnets, are overall more efficient than induction machines. This increased efficiency enables the electric vehicle to provide increased range on the same stored battery energy before being recharged as in the Tesla Model 3.

Grain Boundary Diffused Magnets

Using Grain Boundary Diffusion (GBD) technology, Bunting Magnetics offers a range of Neodymium Magnets that are stronger and lower in cost than existing magnet technology. The temperature of a permanent magnet in a motor could rise above 150 deg C under maximum load conditions, which would cause a magnet with lower intrinsic coercivity to become de-magnetised. To satisfy the higher temperature requirement, the intrinsic coercivity of magnet is increased by adding the heavy rare earth element Dysprosium.

Magnetising Equipment

Magnetising Equipment is used as a means of post assembly magnetising permanent magnet assemblies such as Halbach Array Surface Mounted Magnet Rotors, IPM motors and Large MRI lugs. Depending on the volume of magnetic material to be saturated, the application may suit a benchtop system. Larger magnet volumes require a different design such as the 150kj multi cabinet 5kv system. Bespoke magnetising fixtures are available and are often required to compliment a customer’s final design. These can produce high homogeneity torroidal Neodymium magnetic fields for applications including rotating field measurement and multiple sensors.

Magnet Setters

Magnet Setters are used in conjunction with a bespoke Magnetising Fixture to accurately charge a magnet and then knock back to a required magnetic field value at a specific point in space with a controlled decaying oscillating magnetic wave. This provides calibration and accuracy to plus or minus 1 Gauss.

The Magnetic Future

The number of applications for high energy density permanent magnets continues to grow due to increased efficiency and less reliance on other energy sources. The Bunting Magnet experts look forward to meeting visitors on stand C109 at Cenex LCV to discuss the latest innovations.

For further information, please contact us on press@buntingeurope.com or visit our websites www.buntingeurope.com and www.mastermagnets.com

New metallographic products

MASTER ABRASIVES says having identified consumables for sample preparation to be a gap in its range, it can now offer the market in the UK and Ireland the range of metallographic products manufactured by Microdiamant AG.

The consumables for sample preparation it now offers include cutting, mounting, grinding and polishing products and accessories. These products have been designed by Microdiamant to suit customer and laboratory requirements and at the point of enquiry, advice on the ideal set up will be given to ensure that the customer achieves optimal cooling and sample production.

Microdiamant also offers grinding solutions, such as resin and metal-bond diamond grinding pads, abrasive paper and grinding foils, and polishing solutions such as diamond slurries, polishing pads, composite polishing pads and diamond compounds in their metallography product range.

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sales@master-abrasives.co.uk
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Sticking with adhesives

Mackwell Electronics needed to reliably bond a clear plastic lens into a soft-container emergency light housing. This had to be sealed to IP65 standards for challenging environments, so the company called in UK adhesive specialists, Techsil, to discuss close-coupled bondering options. Techsil took away a housing and lens for assessment and trials at their testing facility at its Bedford HQ.

Following the trials, Momentive’s Snapsil TN3005-S was chosen. This is a clear one-part, low-volatile, silicone, Thixotropic silicone sealant with a fast tack free time. TN3005-S offers primary adhesion to most substrates and cures at room temperature to a 22 Shore a rubber Bonded units were sent away for rigorous testing and passed with flying colours.

Snapsil TN3005-S silicone adhesive sealant is a high performance material that will last for the life of the product. Being a one-component material there is no mixing and no primer needed, making it very easy to use.

Mackwell wanted a semi-automatic bond application for the lighting units. Techsil recommended the Nordson Performus in dispensing system and a manual, cost-controlled benchtop system which is used with an electric foot pedal. It could be used with a pre-applied feed valve that Mackwell already had onsite, to power the dispenser. With fast, controlled application, the Performus can make dots, beads and fills.

This provided an accurate, reliable IP65 rated seal, improved productivity and the system installed can be adapted to suit other in-house bondering applications.

Contact
T 01769 773232
www.techsil.co.uk

UNISIG modernises high volume receiver production

Riffle barrel receivers go on every rifle that is manufactured and a growing firearms industry has affected the demands of manufacturers. One US based firearms manufacturer saw their production push to meet limits with their existing equipment and recognised the opportunity to update their older gundrilling machines to match their modern manufacturing facility. Their goal was to modernise, to handle current and future demand, eliminate a manufacturing bottleneck and maintain the highest efficiency and accuracy standards possible.

UNISIG introduced a solution that would consolidate multiple gundrilling machines into a UNISIG HD multi-spindle machine, replacing several decades-old pieces of equipment to free up floor space, and equipping the machine with high power and control technology that allows them to take advantage of newly updated tooling technology.

By combining multiple spindles and high feed rates of these new indexable gundrills, receivers are now produced at a rate of more than 100 parts per hour, in a steady one piece flow, significantly improving their previous production rate.

New fume extraction systems meeting latest HSE welding requirements

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

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

The F-Tech Fox is a high vacuum dust extraction system offering a portable solution to extract dust from manual welding and grinding processes.

Offering a 5 year warranty the Fox unit offers automatic cleaning of the filters which are manufactured in Europe and offer a long service life. The robust tandem motors offer pure efficiency in providing a vacuum over 20,000 Pa to extract and filter harmful welding and grinding dust. An auto start/stop unit is also available to reduce noise levels and energy consumption when the unit is not running. The Fox unit also has two welding torches simultaneously.

The F-Tech range of fume extraction MIG welding torches are of Swiss manufacture. They offer the user more flexibility and accuracy at the welding source. Available in 300, 400 and 500A air/water cooled versions in 3, 4 and 5 mtr euro fittings.

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

Flow waterjet ups the ante with Joe Gibbs Racing

Flow International, a leading developer and manufacturer of ultrahigh-pressure waterjet systems for cutting applications, has announced a new partnership with Joe Gibbs Racing.

A current competitor in the NASCAR Monster Energy Cup Series and the NASCAR Xfinity Driver Brandon Jones.

This season, Flow is represented on the Monster Energy Cup Series and the Monster Energy Xfinity Driver Grant Brindley, managing director of Joe Gibbs Racing says: “At this level of competition, precision is everything. This machine is the perfect combination of reliability, accuracy and speed, so we need to perfect the parts, operation and control to keep our cars at peak performance.”

This season, Flow is represented on the legendary No. 19 car, driven by full-time NASCAR Xfinity driver Brandon Jones.

T 01455 895300
info@FlowWaterjet.com
www.FlowWaterjet.com

UNISIG modernises high volume receiver production

For cutting applications, has announced a new partnership with Joe Gibbs Racing.

As one of Flow’s signature workhorse machines, it equipped and turned up to the level and as a personal fan, it’s an honour to give the team over at Joe Gibbs Racing the tools they need to succeed.

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UNISIG modernises high volume receiver production

Riffle barrel receivers go on every rifle that is manufactured and a growing firearms industry has affected the demands of manufacturers. One US based firearms manufacturer saw their production push to meet limits with their existing equipment and recognised the opportunity to update their older gundrilling machines to match their modern manufacturing facility. Their goal was to modernise, to handle current and future demand, eliminate a manufacturing bottleneck and maintain the highest efficiency and accuracy standards possible.

UNISIG introduced a solution that would consolidate multiple gundrilling machines into a UNISIG HD multi-spindle machine, replacing several decades-old pieces of equipment to free up floor space, and equipping the machine with high power and control technology that allows them to take advantage of newly updated tooling technology.

By combining multiple spindles and high feed rates of these new indexable gundrills, receivers are now produced at a rate of more than 100 parts per hour, in a steady one piece flow, significantly improving their previous production rate.

New fume extraction systems meeting latest HSE welding requirements

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

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

The F-Tech Fox is a high vacuum dust extraction system offering a portable solution to extract dust from manual welding and grinding processes.

Offering a 5 year warranty the Fox unit offers automatic cleaning of the filters which are manufactured in Europe and offer a long service life. The robust tandem motors offer pure efficiency in providing a vacuum over 20,000 Pa to extract and filter harmful welding and grinding dust. An auto start/stop unit is also available to reduce noise levels and energy consumption when the unit is not running. The Fox unit also has two welding torches simultaneously.

The F-Tech range of fume extraction MIG welding torches are of Swiss manufacture. They offer the user more flexibility and accuracy at the welding source. Available in 300, 400 and 500A air/water cooled versions in 3, 4 and 5 mtr euro fittings.

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

Flow waterjet ups the ante with Joe Gibbs Racing

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Industry Update is sponsored by Heilind Electronics – see them on page 11

Kingston Engineering is one of the UK’s leading manufacturers of bespoke power screws. Based in Hull, the company offers a vast selection of materials and specifications designed to suit their clients’ requirements.

With a history dating back to 1919, Kingston Engineering has specialised in manufacturing right-hand, left-hand, single/multi-start, cut thread power transmission screws and nuts for over 60 years. Adaptable for mechanical power transmission, their products conform to the standards of British, European and American requirements. All of Kingston’s products meet ISO 9001-2015 accreditation and are examined thoroughly during the manufacturing process.

Kingston Engineering’s screws can be used in a range of applications across multiple industries, including aerospace, oil and gas, nuclear energy, the chemical and medical fields. The company works closely with both suppliers and end-users to provide the best purpose-built screws possible, with customers across the UK and the US.

The company started trading as Hull Motor Transport and Engineering Co, manufacturing pistons and providing cylinder grinding. Robert Markham and Thomas Simpkins, the company’s original directors, focused on offering a bespoke service, which is something the company still uphold today. With only 10 employees, expansion was nevertheless on the horizon, enabling the company to provide general engineering services and build a renowned reputation for repairing both saw milling machinery and printing machinery.

The company became Kingston Engineering Co. Ltd in 1924 and started developing manufacturing screws in 1930. Growth during decades marked by World War One and World War Two was challenging, however 1930-1945 saw expansion for Kingston Engineering, with World War Two bringing a need for manufacturing components for aircraft undercarriages.

After World War Two, the company operated from a larger site in Pennington Street and began to specialise in screw manufacturing. Kingston Engineering began to install modern machinery, giving them the perfect platform to grow and open new markets in Australia and South Africa.

In the sixties, the company moved from motor sales to industrial sales, with further investments in its factory, export market, modern machinery, product range and ‘Off the Shelf’ service. Kingston Engineering now had extremely well-equipped workshops, enabling them to accommodate facilities for milling, shaping, welding, grinding and turning.

Kingston Engineering further expanded their factory premises and their product range, leading to a vast range of screws, sprockets, chains, pumps and bearings. They also expanded their sprayed coating services and began exporting across Europe. The eighties saw digital technology further increase Kingston Engineering’s already established skillset.

Now, Engineering provides a quick, efficient service with help from their 40+ workforce. Recently, they invested in a new Mitutoyo Euro M544 Measuring Machine, a significant tool for their inspection department. The machine allows the measurement of an object’s physical geometrical characteristics. The machine creates printed inspection reports and is controlled by an operator with measurements designed by a probe attached to the machine’s third moving axis.

It is clear to see that over the years, the company has significantly invested in their machinery for continued success. The current directors have more than 100 years of experience between them and are continuously engaging in plans to help the company become global leaders in screw manufacturing.

Contact
T 01482 325676
www.kingston-engineering.co.uk

Manufacturing & Machinery Update

100 years of Kingston Engineering

After World War Two, the company operated from a larger site in Pennington Street and began to specialise in screw manufacturing. Kingston Engineering began to install modern machinery, giving them the perfect platform to grow and open new markets in Australia and South Africa.

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Process Valves & Instrumentation Ltd

We are excited about our partnership and we look forward to working with PVI to support our customers with fast deliveries and strong local technical support.

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Pneumatic workpiece ejector

Hainbuch is offering users of its Mini Series, or the earlier Toplus or Spantop chucks, an innovation that is said to save time and money. The company’s Vario Part and Vario Quick end-stop systems have now been joined by a third variant – Vario Flex.

The pneumatic workpiece ejector pushes the workplace from the chuck automatically. Its depth can be adjusted flexibly by means of a special retaining mechanism and it can be positioned in the machine exactly as required for the workplace. This automated function increases process security and reduces cycle times.

The Vario Flex can also be used as a basic end-stop for coolant wash or air flush. The pneumatic spring is removed and a fixed tube is attached.

The optional workplace-specific end-stop with holes for the wash and air flush can then be mounted directly on this flexible interface.

Time can be saved using the standardised end-stops. Set-up times are reduced and the user always has the right end-stop ready to hand. Whether to use Vario Quick or Vario Part is just a matter of preference.

For precise, rigid clamping, Hainbuch recommends using the Vario Part system. It works on the same principle as a gauge block, and its height can be finely adjusted in 1mm steps with gauge discs.

With an axial run-out of < 0.02mm at the part of the end-stop that touches the workplace, Vario Part is suitable for machining finished parts.

The Vario Quick variant is intended for fast, flexible clamping. It has a precise, trapezoidal thread screw to allow the clamping length to be adjusted quickly. A half-turn is equivalent to an axial adjustment of 1mm. Hainbuch also offers and stop blisters for workpiece or front end stops.

T 01543 278731
www.hainbuch.co.uk

Labtex now in partnership with prominent metering pumps

Hainbuch, a manufacturer of high-end, OEM-driven metering pumps, is now offering the advanced metering pump range developed by the highly regarded and innovative Heidelberg based company, ProMinent. This exciting new partnership will further enhance our ability to offer solutions for an increasingly wide range of scale-up processes. The foundation of ProMinent’s global success story is high quality products based on decades of engineering expertise, in-depth understanding of applications and continuous innovation.

The modular ProMinent range, integrated into carefully designed solutions, will enable customers in a wide range of industries to achieve maximum safety and efficiency in their production processes. We share Prominent’s commitment to environmentally sound, sustainable and cost-effective solutions for metering technology in the pharmaceutical, chemical and manufacturing sectors.

Greg Smith, Managing Director at Labtex, said “ProMinent’s position as a global market leader means a continuous commitment to excellent products and services and an obligation to think and act responsibly. It is a real privilege to be working with such a great company, with an innovative culture and commitment to excellence, very similar to ours. I look forward to the journey ahead.”

Contact
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info@labtex.co.uk

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National Convenience Show Review Top 10

National Convenience Show 2019

The NCS 2019 featured an extensive range of new products, two of which were named winners of Innovation@NCS. Blockhead energy gum, and Loomis’ SafePoint. NCS 2020 will take place at Birmingham’s NEC from 30 March – 1 April, so head to the website below to register your interest or book a stand.

This is our pick of the best exhibitors from this year’s show, listed here in alphabetical order: Envisage Clous and eXpresso PLUS. Further details can be found on this page.

www.nationalconvenienceshow.co.uk

Leading the way in drinks2go

eXpresso PLUS are a national coffee-to-go supplier with a difference. They’re the fastest-growing coffee-to-go company in the UK, providing innovative drinks-to-go solutions and bringing big brands, such as Lavazza, Nescafe and Thortons to the 2go market. As a specialist supplier, eXpresso PLUS offers clients a turnkey solution for their drinks-to-go needs.

From premium coffee to fresh leaf tea and luxurious hot chocolate to irresistible ways, their solutions will help retailers and businesses attract customers and increase sales.

eXpresso PLUS manage end-to-end installation of all machines including everything from initial site survey, co-ordinating logistics, machine installation, placing site marketing materials, ongoing marketing support and staff training.

Also, unlike other suppliers, eXpresso PLUS don’t believe in profit sharing, so all customers keep their profit on an easy lease scheme.

And that’s not the only benefit, they offer added value for their customers to help push sales and support them with machine upkeep. Brand Guardians are assigned to each site, they train store teams and provide on-going support including free point-of-sale materials and quality assurance. Customers are provided with a first class service right from their first consultation period.

To find out more visit the eXpresso PLUS website www.expressoplus.com

info@expressoplus.com

Envisage Cloud launches connections software for UK retailers

Envisage Cloud is launching Connections in the UK market to help retailers manage their front- and back-office tasks in a fast and efficient way. The software solution is ideally suited to forecourts, convenience stores, franchises, and multi-store businesses looking to transform their administration processes.

Connections connects a retailers EPoS system with their Sage accounting software – capturing all transactions that go through the till and automatically updating this data to the centralised accounting system, it enables far better visibility of business performance, with profit and loss statements broken down by department easily available for management to review.

Connections also automatically posts invoices and delivery dockets to the accounting system, eliminating the need to manually check invoices against deliveries to ensure stock and price accuracy.

Envisage Cloud is aiming to implement the software in 3,000 store locations across the UK within the next three years.

Ray Ryan, director, Envisage Cloud, said: “We have invested years in building unmatched relationships with EPoS providers and store suppliers to ensure virtually every UK retailer can avail of Connections. Integrating IT systems, streamlining processes and generating accurate and up-to-the-minute reports of business performance are all ways of gaining a competitive edge. Connections now enables UK retailers to do exactly that.”

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Cleaning & Facilities

Update

How can you avoid these 5 common mistakes?

With extensive experience in security services, Satia Rai, Operations Director for TC Security services shares 5 mistakes made by businesses that undermine security and wellbeing.

#1 Not identifying security needs

The biggest mistake businesses make is not defining what the risks are. No business is the same so it is impossible to use a universal solution.

To avoid this contact an SIA accredited security service provider that is approved to supply manned guarding services.

#2 Not securing access points

Many businesses have more than one entrance or exit. To limit the security risk, ensure that all access points are secured, controlled and fitted with security systems.

#3 Not securing important areas

Neglecting to protect data and confidential information is another mistake that businesses make.

Consider installing biometrics access systems together with security video systems to be a deterrent of theft.

#4 Ignoring ID requirements

Not enforcing ID requirements is a mistake. This can pose a risk whereby non-authorized persons access business areas and can lead to theft. It may be tempting to let higher management and frequent visitors in without a badge, but resist the temptation since it undermines the integrity of the programme in place.

#5 Not protecting information and property

Since the introduction of GDPR the number of data breaches has significantly increased. One cause of this is that in some places a “clear desk” policy is still not being followed. Another way to avoid the loss of property is to implement random searches.

T: +44 (0)1737 814016
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www.tcfm.co.uk

Our customers’ opinion really does matter to us

With more than two decades of experience in providing FM solutions Chris Black, Operations Director for TC Facilities Management (TFCM) shares the results from the latest customer feedback survey.

Good business practice dictates gathering feedback from customers to understand the reality of what people really think of a business. As part of our commitment to our customers, TFCM have marked the year that we have done precisely that by opening the window to listen to feedback from our customers.

We developed a survey and listened to the responses from almost 20% of our customers. These responses have helped us understand key indicators of what our customers think about our approach and the services we provide. We are delighted that our customers consider that we have a good knowledge of the industry along with the day-to-day issues that each business faces. This is no mean feat, as we support businesses in a vast range of sectors.

For those wondering how quickly we are able to respond to issues? We heard that 3 out of 4 people feel that we respond quickly to issues. For those wondering how quickly we are able to respond to issues? We heard that 3 out of 4 people feel that we respond quickly to issues.

For more information contact sales@dudleyindustries.com

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, space saving 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 units all housed in a cabinet cleverly concealed behind a mirror.

Specified in 3 simple steps
1. Choose the cabinet size
2. Select the dispenser combination by choosing from soap dispensers, hand dryer and paper towels
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 quick and easy.

Ease of servicing for the cleaning team has been considered throughout the design process. The lockable door is easy to open and the integral shelf helps to store spare consumables.

The Modulo system is designed and manufactured by Dudley Industries in their specialist engineering facility in Lancashire.

For more information contact sales@dudleyindustries.com

www.tcfm.co.uk

Connections in the UK market

for UK retailers

T +44 (0)1737 814016
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SIG to unveil ‘world’s first’ aseptic cartons using ASI-certified aluminium

Aseptic cartoon packaging giant SIG is to launch the world’s first aseptic carton packs that use foil certified to the ASI standard.

As part of its sustainability drive, SIG said the standard will ensure responsible sourcing throughout the value chain – from suppliers through to consumers.

The ASI certification enables companies to audit the aluminium supply chain against strict standards on a broad range of ethical, environmental and social topics.

The company has now extended ASI Chain of Custody certification to all its carton sleeve production sites in Europe.

Ian Wood, chief supply chain officer at SIG: “Achieving ASI certification across Europe takes us on another important step towards our target to source 100% of our raw materials from certified sources.”

T 0191 305 1010

www.rotechmachines.com

TIJ printers streak through Moll’s coding tasks

In the first UK installation of its kind, Rotech has supplied Molls Bacon with a five head, centrally controlled TIJ (thermal ink jet) coding solution. The capital cost was a third less than the indexing thermal transfer systems that are usually specified for these on-thermoformer applications, and the bacon producer is enjoying low running costs thanks to exceptional ink economy, reduced setup times and zero servicing.

“I’m very impressed that the only upkeep I have to do on these printers is clean the heads twice a day. The unit is very efficient in regards to ink consumption, there is still 40% ink left and we haven’t yet replaced the cartridges since they were installed in March. If I’d known then what I know now about TIJ technology, I would have had these printers on our other thermoformer,” enthuses Matthew Dawell, engineering manager at Molls Bacon. From its Birmingham slicing and packaging facility, Molls Bacon supplies the food service and retail markets in the UK and overseas with vacuum and MAP packed bacon, sold under its Cole Valley brand as well as under customers’ own labels. Molls was already buying coding consumables from Rotech, so when it needed a new automated system for applying date codes and batch numbers to the film lids of thermoformed packs, it sought advice from the Hertfordshire coding specialist.

T 01707 393700

www.rotechmachines.com

Spectra continues to see many customers turning to extrusion blow moulding as they seek more complex shapes for their product packs.

Spectra’s extrusion blow moulding capabilities offer many different possibilities for brands looking for creative ways to gain a genuine point of difference. Both flexible and incredibly versatile, the process is hugely attractive to customers looking for sharper corner tolerances and unique complex irregular designs.

Conversely, Spectra customers are also benefiting from the process’s flexibility to enable neck changes without having to change the entire mould each time. This customisable solution permits differing neck fittings on the same bottle mould, eliminating the cost implications of a completely new mould each time. This adaptability is also beneficial when looking at differing closure component choices.

Extrusion blow moulded bottles can also be “co-extruded”, a process that allows the container to be blow moulded with the bottle wall being made up of different layers of plastics. Spectra can utilise this process to give bottles a decorative finish that would be either uneconomical or too expensive to manufacture in a single layer. Additionally, the environmental solutions in a post-consumer recycled (PCR) and biopolymers are easily achievable through the extrusion blow moulding process.

T +44 (0)1986 834190

sales@spectra-packaging.co.uk

www.spectra-packaging.co.uk

THE FIRST EVER MATRIX SPECIFICALLY DESIGNED FOR DIGITAL FOILING

Great for coated and many uncoated papers including Colorplan from GF Smith!

Add foils and Spot UV type effects to the widest range of paper stocks possible!

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Add foils and Spot UV type effects to the widest range of paper stocks possible!
Firepro, specialist applicators and installers of fire protection and thermal insulation, is continuing to be one of the main competitors in the fire protection industry. In order to remain here, the company is constantly providing training and is staying up to date with current worldwide technology. There are always new innovations in the sector, and as full members of the association of Specialist Fire Protection Ireland (ASFP), CIF & CIRI, the company is regularly checked by Firas, an independent body which assesses the Application and Installation of Passive Fire Resisting Products. This approves Firepro’s consistent high standards of work both in office and onsite. The company ensures all the products it uses are tested and approved to BS746 and EN with complete back up data, and its installation and application of fire protection systems have full traceability.

This kind of expertise has led to Firepro being drafted in to correct and install/apply the necessary fire protection to bring a building up to specification; it will issue certification for its works only when it is fully satisfied. Such projects include major companies such as: Google, O2, 3Arena, Pfizer, Penneys Liffey Valley, VHI, Central Park Block I, Toyota Liffey Valley, Priory Hall, Beaumont Hospital, Scotch House, Mary Hotel, BD Medical, Dunnes stores, Keelings Fruit Warehouses and NAIS National Aquatic Indoor, to name a few.

Kemwell WeatherKEM

Kemwell International Ltd. is a specialist manufacturer and supplier of innovative passive fire protection building products, working with clients to ensure accredited solutions are delivered.

As part of a strategy of continuous improvement, Kemwell’s WeatherKEM Fibre Cement Board is now tested and approved as a CATEGORY A board to BS EN 12467:2012+A2 2018 (Fibre-cement flat sheets: Product specification and test methods). The standard is for “sheets which are intended for applications where they may be subjected to heat, high moisture and severe frost.”

WeatherKEM is used as an external cladding board on metal and timber structures of all types of façades, including, residential, commercial and industrial buildings and is also ideal for interior areas of high humidity, like swimming pools, spas and wet rooms.

Kemwell fibre cement boards are low maintenance and easy to work with. WeatherKEM is extremely durable due to its water resistance and because it does not rot, warp or crack, even when subject to high heat or extreme cold. It also enables a variety of finishes due to its smooth surface.

In addition, WeatherKEM fibre cement board is rated as an A2 non-combustible board, so it will not ignite when exposed to fire or extreme heat.

“Our strength is your safety”

It requires both dedication to science and creative artistry in order to craft the perfect beer. You carefully choose the ingredients that offer a spectrum of aromas and flavors. However there’s something still missing from the picture? You need to give your beer soul, a character, tell its story. It needs an identity, it needs a label!

Build the foundation for your brand — the label is the core of what your business is and its values. It connects with your customer base and differentiates you in the market. Your label should be included in your recipe. It is a key ingredient of the brand.

Choose a print partner — At OPM we firmly believe that the best labels come from the best relationships. We love working with our clients that love working with us.

www.kemwell-fire.com
industry update is sponsored by natracare – see them on page 14
Experts in life extension of materials & critical components

Curtiss-Wright have a commendable history behind them, having been founded by three of the world’s most celebrated aviation pioneers, Orville and Wilbur Wright and Mr. Glenn Curtiss, one of the forerunners of naval aviation. Their companies, the ‘Curtiss Aeroplane and Motor Company’ and ‘Wright Aeronautical Corporation’ merged in 1929 in order to create Curtiss-Wright. Today Curtiss-Wright is one of the world’s leading advanced engineering companies, having diversified and branched out into numerous different technologies across multiple sectors, including commercial and industrial, defence, power, metals, aerospace and much more.

At the turn of the 21st century, Curtiss-Wright had grown into a multi-national company, with global sales of over $2 billion and having acquired almost 60 businesses. Many of these companies still operate under their original name, such as Metal Improvement Company, Bolt’s Metalizing, IMR Test Labs, Component Coating and Repair Services and more who now are part of Curtiss-Wright Surface Technologies. These various divisions offer a wide variety of different specialised surface treatments, such as thermal spray coatings, solid film lubricants, shot peening technology and much more.

When it comes to engineered coatings, Curtiss Wright Surface Technologies have a wide scope of services, including providing thermal management, corrosion and erosion, and protection and repair of turbine components. Curtiss-Wright Surface Technology can provide protective engineered coatings or metal coatings to protect components from the environment, corrosion, heat, and wear. As they can ensure protection for components of any size or complexity, they have a vast client base made up of those seeking their protective coating services, including the aerospace, oil, gas, automotive and medical industries.

Their range of coating solutions includes thermal spray/HVOF coatings, solid film lubricants, liquid coatings, and parylene conformal coatings. Not only that, but Curtiss Wright Surface Technology also offer repair and overhaul for gas and steam turbine components, as well as laboratory testing and process verification for: salt spray corrosion testing, U.V. testing and development of their own bespoke coating systems such as Everlube®, Microseal, and Flurene Lube-Lok®, sacrificial aluminium coatings, diffusion coatings and pre-treatments.

Metal and material surface solutions are a huge concern for clients, and is one of the most highly sought after services from Curtiss Wright Surface Technologies. Problems can be caused due to any number of reasons throughout the component design process, whether it’s the choice of materials used, incorrect assembly, or damage to the parts caused by bending, rolling or forging.

Components of any type can be damaged, such as blade roots, rotating rings and tie wire holes used in Aero-Engines, fasteners and strengtheners used in Airframes, and torsion bars, gears and keyways, which are used to make Crankshafts and more.

Thankfully Curtiss Wright Surface Technology have a large array of solutions, including but not limited to: C.A.S.E. isotopic superfinishing, Parylene coating, Thermal barrier coatings, CATHodic protection and much more.

If you would like to find out more about Curtiss Wright Surface Technologies and their many specialised, services and solutions, then be sure to get in contact with the company today. Alternatively, you can find out more about the company by visiting the website below, where information, animations case studies and links to their many services can also be found.

CWST are exhibiting at the Engineering Live Show on the 19th September 2019 in Solihull. Pop along and say hello!

Contact
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