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

The cradles provide producers, converters and distributors of rolls of fabrics, papers and films with a safe and economical system for horizontal stacking on pallets, saving on production, warehouse and distribution costs.

Custom moulded packaging in paper fibre is increasingly replacing less environmentally acceptable materials. Henry is able to mould large format, heavy duty, deeper sections and its products are recyclable. It has its own design studio, mould making shop, slurry development and production process under one roof.

Contact
T +44 (0)1733 810589
steve@stakker.eu
www.stakker.eu
Editor Recommends

Gen-3: The best ceramic coating on the market

With 18 OEM approvals and more in the background, our market share is continually growing.

To strengthen our position, Gen-3 has recently launched its Finance & Insurance (F&I) offering. This is designed to assist owners in protecting their vehicle in the event of an unfortunate incident while mitigating the cost of repairs incurred in restoring its appearance to preserve its resale value.

The new F&I offering only succeeds in strengthening our brand in the market.

The Cosmetic Insurance (Restore) along with our other products have been launched under our new strapline – Protection. It’s in our DNA and complement the rest of Gen-3’s offering.

The Restore policy includes an unlimited amount of claims up to £3,000 aggregate, with up to £500 per claim covered by the policy.

An optional alloy wheel add-on to the main policy also covers up to nine alloy wheel repairs for the duration of a three-year policy.

If you are interested in working together with Gen-3, please contact: customerservices@gen-3glasscoat.com.

PTFE Fluid Handling from Bohlender

Bohlender offers a vast range of finished and semi-finished products in technical and fluoroplastics. A variety of different materials like PTFE, FEP, PFA, PEEK and others enable innovative products to be produced with excellent chemical resistance and high thermal resistance.

Screw joints and ground joint components, tubing and connectors allow an infinite number of combinations to create sophisticated systems of fluid transfer using standard laboratory bottles and containers.

For distillation of strong acids or alkaline products BOLA manufactures reaction vessels up to 6 litre capacity in PTFE or PFA. All parts exposed to the medium are either made completely of PTFE/PFA or jacketed like the thermometers.

The BOLA catalogue also includes a wealth of technical information on the materials used including physical properties and chemical resistance and the safe use and care of fluoroplastic labware. Further advice on the pressure resistance of tubing and the correct choice for pressure or vacuum applications make the catalogue a useful reference.

Contact
T +44 (0)1484 600200
sales@labtex.co.uk
www.labtex.co.uk

Global technology leader in diaphragm pumps and systems for liquids and gases

KNF have been designing and manufacturing diaphragm pumps for use in demanding applications across a wide range of diverse industries for more than 60 years and are recognised throughout the world for their quality, reliability and performance.

We specialise in high quality OEM vacuum pumps, air compressors, liquid metering/dosing pumps and also offer an extensive range of laboratory pumps and systems. All of our pumps are 100% oil-free offering quiet, reliable and efficient transfer of air, gases and liquids.

KNF provides its customers with extensive advice, reliable service and customised, flexible solutions. Our standard pumps can easily be modified to suit a wide range of customer specific solutions for your application. We work closely with you to design customised project pumps that give you a competitive edge in your target market. From its configuration to its testing conditions and packaging, your project pump is tailored to your particular needs.

From medical equipment and instruments, to environmental engineering and analytics, to printing equipment and new technologies such as fuel cells, customers working in any field benefit from KNF’s expertise and many years of experience in diaphragm pump technology.

KNF UK has a dedicated team of experienced technical pump engineers. At our facilities in Witney, Oxfordshire we offer sales, full services capabilities, local stock, system builds and technical support. So whether your pumping application is for use in an OEM product or in the laboratory we will be happy to discuss your requirements further.

T +44 (0)1993 778373
www.knf.co.uk
GEN-3: Leading the way in protection

Paintseal Europe Limited specialise in vehicle aftercare products, with a primary focus on ceramic paint protection and was established in 2006 by Rob Collins and Andy Bradbury who wanted to create a company that provided next-generation products that enhanced the consumer and dealer experience. They also wanted to develop a range of own brand products that added real value to a client’s car manufacturing, financial and OEM business; providing a world class service that was unrivalled within the industry.

Rob and Andy were anxious that consumers were wasting their money on expensive paint protection packages which were easily and rapidly deteriorating. To combat this problem, Rob & Andy researched Liquid Glass Ceramic Technology, to offer clients a product with unmatched durability and resilience to aggressive chemical cleaners. With such a revolutionary product, GEN-3 has ensured that clients are now purchasing a real value-for-money product, allowing clients to keep their vehicles in a new condition.

In a recent interview with GEN-3’s Director of New Business and Operations, Sarah Powell, we asked her to explain in greater detail the reasoning behind Paintseal Europe Limited creating their incredibly innovative and unique solutions.

"After the rapid improvements in paint technology developed by car manufacturers, it became obvious to us that consumers buying expensive paint protection packages from their dealers were getting poor value for money. Certainly, the paintwork looks glossy at first, however the protective finish rapidly deteriorates and many need replaishing by using a conservor or resin polish. Our search for a solution finally ended with the discovery of liquid glass ceramic technology. Its amazing durability and the fact that it is impervious to aggressive chemical cleaners, means that consumers are now able to purchase a real value for money product. Vehicles can now keep their showroom shine and are easy to clean due to the amazing hydrophobic properties of GEN-3 Glasscoat."

GEN-3 Glasscoat is their latest complex formula which is a liquid glass that when professionally applied bonds to a car’s paint surface and forms a hardened Ceramic glass film. The advanced NASA designed technology formulation ensures that dirt and grime are easily removed from painted surfaces. The hydrophobic action is demonstrated by the way it repels liquids and it’s extremely resilient to all kinds of environmental pollutants. GEN-3 Glasscoat has exceptional resistance to the effects of car washes, solvents and animal matter - keeping the car looking newer for longer without the need of waxes and polishes.

We also asked Sarah about the benefits GEN-3 products offer their clients that their competitors do not.

“We pride ourselves on our spectacular one on one service, which means our fully employed team of business development managers regularly call into our dealerships to offer training and increase penetration rates. Moreover, our Glasscoat is still the best on the market, offering greater protection than others. Our product has been scientifically tested against our competitors, and beats in many areas, as well as boasting endorsements from 18 OEMs within the United Kingdom.”

“Our expertise within the Liquid Glass Ceramic coating sector has been gained over 12 years of experience. Indeed, we are the pioneers of this technology, being the first to launch this type of coating into the automotive sector. We are confident our product only cements the quality and unique properties that GEN-3 has over the competition.”

Paintseal Europe Limited are aspiring to position themselves as the one-stop-shop for all of their clients’ needs, and the GEN-3 product range is always expanding, offering customers more choice and products to exceed their expectations.

Paintseal Europe Limited creating their incredibly innovative and unique solutions.

"It is with innovative products like these that will see Paintseal Europe Limited succeed in the protection of vehicles throughout the world – ensuring their growth and ability to continually push the limits of their GEN-3 solutions. We will be keeping a close eye on the company in the 2019 to see what new amazing solutions they come up with."

If you would like to get in touch with the experienced and professional team at Paintseal Europe Limited, call them on the number below. Alternatively, if you would like any more information on Paintseal Europe Limited’s exceptional GEN-3 products and services or would like to view an extensive product list, make sure you check out the following website.

Contact
T +44 (0)1753 215311
customerservices@gen-3glasscoat.com
www.gen-3glasscoat.com
3DPRINTUK: From Prototypes to Low Volume Batch Production

Here at Industry Update, we are incredibly pleased to announce that 3DPRINTUK have been specially selected to receive our highly commended 3D Printing Company of the Year award as a result of their outstanding services which are helping smaller and medium sized companies with their manufacturing needs.

3DPRINTUK is a relatively new company but have already grown to become one of the UK’s favourite providers of 3D production. 3D printing is changing the way the manufacturing world sees prototyping, design and development and even mass production, offering a cheap and simple method for strong, accurate and cost-effective small parts and components, but with potential to grow far bigger.

Based in London, 3DPRINTUK is led by Director Nick Allen, a trained product designer and engineer with years of rich experience in the industry. Prior to 2011, he spotted a clear gap in the market for 3D plastic production, without the need for CNC milling or expensive injection moulding. Typically, injection moulding can be quite expensive due to the necessary tooling costs, resulting in both SME and multinational corporations opting for cheaper alternatives that are still high quality and durable.

Nick stated, “Here at 3DPRINTUK, we are bridging the gap between injection moulding and prototyping, able to offer clients a high quality service that offers a quick turnaround, identical and accurate models, and even free polishing for finishes of our components, bringing them to a high quality and durable finish. 3D Printing has been booming over the past decade, and it’s far and away the best tool for product development and low volume production, with massive potential to change a lot of things.”

Today, his company specialises in additive manufacturing for low volume production runs and one off prototype production, working with all manner of companies across the UK but mainly SME’s. Names they have worked with include Aston Martin, Merlin Magic Making, Brilliopak and Brushtec. Using Selective Laser Sintering (SLS) machines, 3DPRINTUK are able to provide industry leading low volume and batch production runs, printing anywhere between a handful to a whole portfolio of plastic parts. This can be applied to almost any sector, whether for the production of technology, engineering parts, models and more. In fact, with the SLS 3D printers, the components created are often far superior in terms of functionality and resolution when compared to traditional resin printers.

Over a million 3D parts have been produced by 3DPRINTUK using SLS technology, with machines that they have invested hundreds of thousands into. Better yet, in order to ensure each client gets the exact part as intended, all their printers are recalibrated once a week and all printed components are visually checked before dispatch.

For those seeking prototyping, SLS is far and away the best method of production, though the machines themselves can be quite costly. With 3DPRINTUK, clients can rest assured knowing their highly confidential prototypes are in safe hands from concept design to finish. Some of their one off prints includes a 3D printed camera, a BARU coffee brewer, VR goggles, plus parts and components for bikes, jigs and clamps, specialist jewellery and much more.

Their low volume batch production includes 3D printed jigs and fixtures for Brushtec, a worldwide manufacturer and designer of innovative brushware; specialising in brushes for the industrial, municipal and agriculture markets. Brushtec choose SLS printing as, “A tactical solution to turn around an improved design quickly, without all the setup costs of injection moulding. For some parts we make, SLS was 55-75% cheaper than CNC milling. What convinced us was the speedy turnaround from 3DPRINTUK, along with the accuracy of the output which was far better than we had been able to achieve with other suppliers and also at a reasonable cost.”

With the 3D part already down, 3DPRINTUK are now looking to improve upon the behind the scenes, investing in advanced order management systems that will improve their overall efficiency and service provision. Nick added, “By furthering our organisational skills, we will be able to speed up our rate of production and turnover, increasing the amount of client projects we can take on, whether it’s for low batch or one off models. Not only that, but we’re also introducing transparent tracking so that clients can see exactly where in the printing process their components are. Finally, we are also looking into bettering the finishes of our components, bringing them to a high quality level more in line with injection moulding. This will make the parts we print on par with end user products, so no longer just prototypes!”

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Anyone who is interested in exploring 3D printing may be interested to know the team hold monthly facility tours where visitors can pose questions and concerns about 3DPRINTUK’s services and the world of production in general. These open days are great for anyone, designers, students, business owners, investors, and even curious members of the public.

For more information, you can always get in touch with 3DPRINTUK using the details provided. Alternatively, why not head over to the website for more details, case studies and updates.

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UNISIG presents new manufacturing solutions for mold makers

With the new range of UNISIG’s USC-M deep drilling and milling centres, mold makers now have seven powerful and versatile solutions for workpiece diameters of up to 3,600mm and workpiece weights of up to 30t. All machines combine several processes in one machine: the deep hole drilling and milling on all four sides of a workpiece, while at the same time reducing setup times and increasing accuracy for mold makers. All machines support the high feed rates of modern indexable gundrill tools.

In addition to the use of gundrill deep hole drilling tools, some models can even support the more effective BTA deep hole drilling tools for the high performance drilling of waterline holes. A CAT50 quill allows you to perform all deep hole drilling and machining operations within the machine’s working range. The machines are equipped with a 360-degree rotary work table and a programmable deep drilling and machining spindle. These can be aligned via a pivot axis with 30 degrees down and 15 degrees upwards. The latest Heidenhain TNC 640 CNC controller and Heidenhain motors and drives are used. A full guarding with oil mist extraction completes the equipment.

This machine series has now been extended by 4-6 axis machines, for deep hole drilling with gundrilling tools and milling, with a universal spindle and a short changeover between deep drilling and milling operations for the efficient production of small to medium sized workpieces.


Changes to Thorite website

While the current Thorite website offers clarity and ease of navigation, the website has been in its current state since 2013 and following feedback from customers, there are several changes on the way to enhance the site at www.thorite.co.uk

According to Gary England, E-commerce marketing executive at Thorite, from August, customers will be able to browse the Thorite catalogue without first having to log-in. “We have also improved the Search facility by adding enhanced Product, Datasheet and General Search functions with the result that it will now be much easier for customers to find products and add those products to their basket,” he says.

A Fast Lines facility will enable customers to paste a list of part numbers and quantities directly into their basket from an Excel spreadsheet or similar.

Contact
T +44 (0)1274 663471
www.thorite.co.uk

NEW Sonatest RSflite Portable Inspection Solution for the Composite Industry

Active with key industry players for 60 years, Sonatest, a leading Ultrasonic Non-Destructive Testing (NDT) manufacturer is proud to deliver its new generation of the popular RapidScan product family: the RSflite. Complemented with the fast WheelProbe2 linear array probe and the newly developed UTmap stitching and analysis software, this new Sonatest solution sets a new standard of performance, portability and efficiency for the inspection of simple to complex composite structures.

Save time. Be more efficient. Boosted by impressive recording speed, the RSflite lightweight battery operated equipment is two times faster than the previous generation. Handling small to large probes and with almost no file size limitation, it can cover rapidly large surfaces and spare precious inspection hours down the production line or at the maintenance site.

Ultrasonic NDT is key for precise composite inspection

Ultrasonic NDT has helped engineers inspect all sorts of composite materials for years. Whether it be traditional aluminium laminates or today’s more complex carbon-fibre based composites, the fast Sonatest RSflite linear scanning technology – also called electronic scanning – offers the ability to acoustically see through these parts and create high-resolution inspection maps.

COMPLETE ULTRASONIC NDT SOLUTION FOR THE COMPOSITE INDUSTRY

Most of composite structures and materials can be inspected using Ultrasonic Non-Destructive Testing (NDT) technology since it can ‘acoustically see’ through the material.

Coupled with innovative linear array technology, it is now possible to rapidly cover large surfaces and reliably generate a comprehensive volumetric integrity report of composite laminates and sandwich structures.

With its RapidScan, Sonatest delivered successful inspection solutions to composite industry leaders.

Twelve years later, a new generation solution is born: the RSflite, WheelProbe2 and UTmap products.

Entirely designed and optimized for the composite industry needs, this complete package helps engineers qualify new composites at the design stage, detect faults during manufacturing or after impacts.

The portable and battery-operated kit allows detection and precise sizing of delaminations, disbonds and porosities in materials. This solution is equally efficient for manufacturing or for maintenance.

Recognized globally with offices in the UK, USA and Canada, Sonatest has been a valuable partner to the composite industries for 60 years.
Bauder achieves Investors in People Platinum accreditation

Bauder has become the first to achieve the Investors in People (IIP) Platinum standard, the most sought-after status in the National scheme, within the Construction of Buildings category. The Platinum accreditation is the highest accolade that can be achieved and is currently held by only 1% of IIP accredited organisations.

The Platinum accreditation clearly demonstrates Bauder’s commitment to its strong Culture and inherent staff wellbeing, personal development and embedded leadership practices. Andrew Mackenzie, Managing Director, said about the award, “This is a remarkable achievement for everybody in our Company, we are truly delighted. We never forget that our continued success is reliant on our brilliant staff and I am so proud of the team here and everything they do.”

Commenting on the Award Angelina Barnes, Head of HR stated, “We are absolutely thrilled; we work hard to ensure our people focussed culture provides a fulfilling and empowering environment. Alignment of employee initiatives to Company objectives enables sustained success and this award will see us continue to work even harder as that journey continues.”

Contact
T +44(0)1347 257671
info@bauder.co.uk
www.bauder.co.uk

ERA launches
Lockdown:
Emergency Door Security

ERA, the UK’s leading home security specialist, has launched Lockdown, the UK’s first emergency barricade device designed to provide high performance security in the event of a threatening situation.

Lockdown is simple and easy to fit (no fumbling with keys or padlocks) making doors inaccessible to intruders and creating a safe hiding place for civilians in the event of an attack.

Robust and lightweight, Lockdown is available for both single and double doors, whether inward or outward swinging and fitted with or without traditional locks.

Locked in at 102mm, Lockdown fits doors from 650mm-1,100mm width, weighs 4kg+ and takes seconds to fit. The double door option fits doors up to 60mm, weighs 1.6kg and again takes seconds to create a secure barricade to outside entry. Pricing for the Lockdown varies and depends on numbers and configurations required.

For further information on ERA Lockdown and other security solutions, visit: www.eraeverywhere.com. Interested parties should contact the sales team on: +44 (0)1922 490000 or email: info@eraeverywhere.com.

Two leading exponents in industrial and commercial water treatment have joined forces to create a groundbreaking product for the cleaning, treatment and protection of commercial heating and cooling systems.

The patent pending DosaFil-Duo is the only device on the market to combine the safe dosing of solid or liquid chemical treatments (of any brand) into hot or cold closed recirculating water systems with constant side stream filtration and continuous air removal.

Uniquely, the unit features smart monitoring technology as standard to ensure optimal filter bag replacement. DosaFil-Duo’s standard operating pressure and temperature ranges are also unmatched in the market today. Now field trialled for over 12 months, this proven technology effectively protects commercial and industrial systems from the damaging effects of corrosion, limescale and fouling, thereby optimising the energy efficiency, performance and longevity of equipment.

Steve Crick and Peter Robinson developed DosaFil-Duo in response to key concerns regarding water treatment and control in the commercial and industrial HVAC market.

“With DosaFil, we’ve created a product that overcomes common water treatment issues, enabling closed commercial and industrial heating and cooling systems to be cleaned, protected and maintained in a very easy, convenient and, above all safe manner, in combination with advanced chemical treatment technologies,” explained Steve Crick, Co-founder and Managing Director of DosaFil.

Contact
T +44 (0)345 605 0405
hello@dosafil.co.uk
www.dosafil.co.uk
The past 12 months have undoubtedly been among the very best for the Swindon based company, who specialise in electrical wiring for a range of sectors, including the industrial, scientific, medical, acoustic, rail, military, semi-conductor and power sectors. Experts in rapid prototyping and development, they can create everything from cable assembly to looms, harnesses, electromechanical units, integration systems, PCB assembly, box and cabinet builds and assist your design department with 3D CAD support. Thanks to their wide range of specialist services and their commitment to client satisfaction, the 40 year old company have managed to enjoy steady, growing success over the course of the past year.

For this issue, we spoke to Managing Director, Duncan Game who explained, “Here at IEW, we provide a flexible bespoke service and pride ourselves on our exceptional customer service, helping to build up a reputation as a leader of technical expertise and manufacturing. Right now, the team are looking to expand further into the PLC area.”

Operating within complex machine building, on some of the world’s most advanced and sophisticated technologies, IEW have managed to build up a reputation as a leader of technical expertise and manufacturing. Right now, the team are looking to expand further into the PLC area.

Duncan added, “Looking to the future, we are extremely excited to increase our range of PLC related services. We are currently developing relationships with software developers who work in the PLC industry, so we can partner with them and provide a total solution for companies who may need support with software to PLC hardware assembly and integration. Our PLC solutions will have a focus on high quality development, reliability and longevity, as well as portability and customisation. This exciting new endeavour is an example of our ability to respond to the changing needs of our clientele. In addition, we are currently redeveloping our website to give it a smoother appearance, to respond to the changing needs of our clientele. In addition, we are currently redeveloping our website to give it a smoother appearance, offering much more information and detail and with a more modern and appealing interface.”

It is not just the website that is having a face lift however, as IEW’s entire computer system and software is getting a whole new redesign. Planned for completion in 2019, the new computer system has been created to offer far greater ease of use, efficiency, speed, and capability. Improved for both staff and customers, the redesign is just part of an exciting future plan for the company. For MD Duncan himself, he has been working hard through his Goldman Sachs 10,000 Small Businesses program. Specifically for high growth companies, the programme has been especially beneficial for Duncan in terms of investment strategy, leadership and culture, managing growth and creating business and employment opportunities both within the company and externally. Thanks to the programme, IEW have been able to devise a new strategy for a number of key areas within the company across innovation, employment, customer service and vision implementation.

There have been a number of customer changes over the last few years that have been reflected by market wide changes. This includes an industry shift towards shorter lead times and lower prices, improving cost-effectiveness and speed of turnover for the client. IEW have aptly positioned themselves in this regard, having invested in top of the line processing and capability and already working to provide the most cost-effective solutions possible in an inflationary cost-environment.

On being named as our Electronics Manufacturer Company of the Year Award, Duncan added, “It’s fantastic news and we’re extremely delighted to be awarded this by Industry Update. The whole team at IEW have worked extremely hard to get to the forefront of the industry; it’s great for everyone to be recognised and rewarded for our efforts over the last 18 months.”

Whilst 2017 saw great sales growth and targets met for the company, due to the increase in size and revenue, 2018 was more about consolidating that success. The team at IEW are now looking to identify areas where they can improve to solve their customers’ requests more effectively and new markets they can enter into. One such area highlighted by Duncan included high technology based industries, such as the medical and scientific sector. Needless to say, these areas require extremely high standards of quality and are on the leading edge of technology, whether for use in research and development or application in diagnosis, treatment or experimentation. They have also been involved with a number of governmental projects which they continue to support, as well as working with emerging British Original Equipment Manufacturers.

If you would like to find out more about Industrial Electronic Wiring Ltd and all they offer, be sure to see below for details. You can also head over to the website for more information on their wide array of sectors served and services available.

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PCB’s micro ICP Pressure Sensor, Model 132B38, is suited for wind tunnel applications that require very small test sensors and very high frequency response. This improved design features a centered sensing element which improves accuracy of time of arrival, targeting, sniper/projectile detection systems, and aerodynamic testing in high speed wind tunnels. Model 132B38 measures high frequency pressure phenomena and can resolve short wave length, dynamic pressure pulses.

This pressure sensor measures shock waves above 11kHz and up to 1MHz. With a measurement range of 50psi and a resolution of 0.001psi, it is sensitive enough to measure standing waves associated with boundary-layer transitions and the bow and stern of shock-waves created by projectiles. The sensor features stainless steel housing and a 10-foot integral cable that terminates in a 10-32 coaxial jack.

Contact www.pcb.com

Pressure Measurement
Standard and Custom Transducers

Monitoring CO₂ Concentrations in Pig and Poultry Processing

Over recent years, there has been increasing concern for raising welfare standards in meat processing. This covers not just the animal’s environment and diet but also the procedures used in the slaughtering process.

To safeguard that an animal is insensitive to pain while being slaughtered, a European Union directive requires that all animals are stunned prior to slaughter. There is one exception for animals killed at slaughterhouses in a manner in keeping with religious rites. Several methods can be used to render the animal unconscious, including electrical stunning, mechanical stunning or through the use of gas.

Gas stunning involves using an environment with a high carbon dioxide (CO₂) concentration to cause the animal to become unconscious. This approach has gained popularity, particularly in Europe, as it can offer a reduced risk of injury during the stunning process as there is no need to restrain the animals beforehand, which can also improve the quality of the meat, and is generally considered to be amongst the most humane stunning methods. It can also be used as a way of directly killing the animals.

Find out how ensuring the correct CO₂ concentrations are essential for causing minimal harm to the welfare of livestock.

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Awesome Technology: Leading the Way in Software and 3D Printing Solutions

Here at Industry Update, we are extremely proud to announce that Awesome Technology Ltd has been specially selected to receive this issue's highly commendable Advanced Software Company of the Year Award, as a result of their continually outstanding technological expertise.

Awesome Technology was first set up back in 2011 by a group of directors who had built up extensive experience in machine tool software applications within aerospace, automotive and metrology. Based in Cheltenham, Gloucestershire, Awesome Technology specialises in scanning, 3D printing and CAD based software, as well as 3D printing technology and a range of dental solutions. The world of 3D printing has seen a significant boom in recent decades, with many more industries seeking 3D printed prototypes, models and even batch production. On top of that, Awesome Technology also provides Engineering Applications to help optimise engineering processes and drive machine tools using both advanced technologies and CAD software.

Their engineering software can be seen in use across the UK and around the world through a cross sector of industries. However it is the 3D printing side of the business that has really taken off in recent years, especially throughout 2018 itself. In particular, their technologies solutions have taken off across the dental sector, with regards to personal scanners, design software and 3D printing.

Among Awesome Technology’s most popular products is the Moonray, a specially developed 3D printer that is capable of rapid prototyping. For this issue, we spoke to Director Don Babbs about the Moonray, to which he explained, “The Moonray has seen considerable success since the launch. It is particularly sought after in the dental sector, where it is used to perform a digital scan of the mouth to create a bio-compatible replica made out of non-toxic resin. This world leading resin can be used for accurate drill guides for use in guided implant surgeries. There is a range of specially developed resins, made just for Moonray, which offer their own advantages. This includes the Gray resin which requires no primer, results in an excellent finish and detailed finishes, with zero residue or ash left behind. As for the Moonray S, it has seen significant popularity for reverse engineering applications and rapid prototyping. It has been beneficial for designers, artists, and engineers seeking to test their ideas with a real, physical model. On top of dental applications, the Moonray has proven invaluable for the jewellery sector, capable of producing 3D printed jewellery with all of the designs and details included.

Amid such amazing results, it’s no surprise to see that Awesome Technology has been awarded many commendations and accolades throughout the years. In fact, it has the potential to significantly transform the way the dentistry sector operates, with 3D mouth models and components now far easier to build quickly and accurately, and far cheaper too. The Moonray J is ideal for providing high resolutions and detailed finishes, with zero residue or ash left behind. As for the Moonray S, it has been particularly popular among the dental sector for its ability to print with extreme precision, with a resolution of 10 micron XY resolutions, three times that of SLA printers. In addition, as the UV projector cures whole layers of a component at once, the printing speed is not affected, making it much faster than SLA methods too.

Back on the software side of things, there has been a growing trend of machine tool innovation, with new developments and breakthroughs constantly occurring. As these machine tools are all computer driven, it has opened up doors for all kinds of software development, with Awesome Technology investing across their software services in order to keep pace with the rate of technology and continue offering the very best solutions.

Most recently, they showcased their wares at the TCT Show, held in September at the NEC, Birmingham. Here, Awesome Technology demonstrated the many applications of their technology and how to use it. Both attendees and industry peers were impressed by the attention to detail and expertise their 3D printing products showed, with many praising the Moonray in particular for the way it is helping to bring the dental world into the sphere of technology.

If you are interested in finding out more about Awesome Technology’s top of the line services, then be sure to get in contact with the team today using the number below, where one of the members can help direct your call. Alternatively, if you would like to find out more information, then please feel free to check out the website below.

Contact
T +44 (0)1242 924005
www.awe-apps.com

The Moonray, which comes with a one year warranty, is made in 3 varieties, Moonray S, D and J, with the D perfect for dentistry.
Terinex supplies Heinz with heat sealable film

Terinex has launched a new heat sealable ovenable film, which has been used for Heinz Beanz toastie.

Terinex has recently collaborated with Kraft Heinz using Q-Tex Film with its new Heinz Beanz toastie product that introduces the iconic beans on toast meal now available in a mess-free, food-to-go application.

Terinex said it is continuing to partner with large global food brands and food service businesses, catering to the demands of the food packaging industry and changing consumer demands.

Contact
T +44 (0)1234 364411
sales@terinex.co.uk
www.terinex.co.uk

Waste rubber!
Waste plastics!

Manufacturers and recyclers sit up!

A solution at last that truly gives you a plethora of Eco Friendly, Profitable products.

Dena Nano-wood Ltd has developed a nano process which reacts with the surface of waste tyre powder to produce a wood replacement material. These materials have hundreds of applications from furniture to construction. The colour and finishes are wide ranging and these materials can be laminated, painted, sanded, nailed and screwed. They are fire resistant, highly insulative, thermally and acoustically, and according to joiners they are an absolute pleasure to work with. Manufacturing without producing any emissions and totally recyclable again up to 50 times, the return on investment is usually under 2 years.

Contact
www.dena.co.uk

New void fill systems to help businesses use less plastic

UK packaging solutions provider, Hazel 4D, has added smart paper, air and cardboard void fill systems to its range.

The systems offer businesses an alternative to traditional plastic void fill protection, such as bubble wrap. Using the machines, companies can produce their own void fill to cushion their products in transit, whilst reducing their plastic consumption and cutting their packaging costs.

By installing a Nuevopak™ machine, businesses can eradicate their use of plastic void fill and increase their packing speeds. The X-Series™ machines produce cushioning made of biodegradable paper and the X-Fill™ machine is one of the fastest on the market, dispensing 1.7 m/second.

Hazel 4D’s Cushionpack™ machines come in a range of sizes and allow waste cardboard to be converted into void fill. They’re ideal for warehouses looking to reduce recycling costs, increase storage space and remove the need to buy void fill products in the future.

Alternatively, businesses can protect their products with inflated air pillows and cushions made of 98% air and only 2% plastic. Locked Air™ pillows come with a choice of a degradable film or an ultra-thin film made of 35% less plastic than standard air pillow systems.

Contact
T +44 (0)113 242 6999
www.hazel4d.com

Print & Packaging Update

Industry Update

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Industry Update is sponsored by Eurotec Environmental – see them on page 21

11
Industry Update is proud and excited to announce Chell Instruments as the recipient of our Instrumentation Provider of the Month for their pressure, vacuum and gas flow measurement and control solutions.

Chell Instruments, established in 1976 in North Walsham, Norfolk is one of the market leaders in the development and supply of pressure, vacuum and gas flow measurement and control solutions in the world – supplying instrumentation to some of the most prestigious organisations across the globe including Rolls Royce and all of the F1 racing teams.

The company pride themselves on their five key values – uncertainty, highest reliability, unsurpassed commitment – quality of performance, lowest available uncertainties, highest reliability, unsurpassed service commitment and customer focussed designs – all of which lead to offering unparalleled instrumentation to clients that come back time and time again. Products such as their Air Ingress Monitor specialist Leak Rate Monitors for the Power Generation industry is an example – however there may occasionally be requests where we feel our US partners may already have the perfect solution and so we do recall some US instrumentation. At the end of the day our aim is to satisfy our clients’ needs as quickly as possible. We always place our customers first.”

This dedication to customer satisfaction extends throughout every facet of the business and can be readily seen in their testing processes. Every bespoke solution is developed in house in their own machine and electronics shops by a team of incredibly talented experts.

“All our products are manufactured in house where precision CNC machining, Tig welding and helium leak testing are carried out, giving us total control over quality and performance.”

“Performance has been our watchword since inception and our policy has always been to provide calibration facilities for every measurement device we supply. This has resulted in an ISO17025 accredited UKAS calibration facility having some of the lowest uncertainties available outside National Standards, so that products purchased from us have the highest measurement integrity.”

The range of products available from Chell Instruments is vast and covers a wide variety of applications such as; aerodynamic pressure scanning, gas pressure measurement and control equipment, vacuum measurement and control, mass flow meters, systems and controllers, gas handling, gas purification equipment, bespoke test and calibration systems, and a UKAS calibration service.

For more information on the incredible range of solutions Chell Instruments offer, visit the website below or alternatively if you have a more specialist need not covered, contact the professional expert team who will be happy to discuss and find the right solution to your needs.

T +44 (0)1692 500555
info@chell.co.uk
www.chell.co.uk

For more information, please visit: www.cwst.co.uk or call: +44 (0)1635 279621 or email an enquiry to: eurosales@cwst.com.

Specialists in Metal Surface Treatments

At Curtiss-Wright, we offer our customers a single source solution and point of contact for all their controlled metal surface treatments, supporting their requirements through our global network of over 70 worldwide facilities and on-site field teams, improving and reducing turnaround times and costs.

We are metal surface improvement specialists; protecting a range of components from common failures and reducing maintenance costs for key industries such as aerospace, oil and gas, automotive, medical and general industrial markets.

Building on the unique heritage of Glenn Curtiss and the Wright brothers, Curtiss-Wright Surface Technologies has a long tradition of providing innovative, metal improvement solutions and building solid and trusted customer relationships.

Curtiss-Wright Surface Technologies was formed as part of the ‘One Curtiss-Wright’ initiative to drive industry expertise and innovation and is the group name for key industry leaders in controlled metal surface treatments who are all trusted experts in their field; Metal Improvement Company, Component Coating and Repair Services, Bolt’s Metalising, EIM Coating Services, Eureflex Products, FW Gartner Thermal Spraying, IMR Test Labs and Ystradym Argotia AB.

Surface Technologies is a Division of Curtiss-Wright Corporation, a global innovative company that delivers highly engineered, critical function metal improvement services and services to the commercial, industrial, defence and energy markets.

For example, have been in service for nearly 40 years are now in their MI4 version and are almost all still in service, returning annually for calibration.

Many of their solutions incorporate instruments and components such as thermal mass flow meters, controllers and capacitance manometers produced by their partners. One of the elements of Chell Instruments that elevates them above the competition is their ability to create bespoke solutions as Nick Broadway, Managing Director at Chell Instruments explains during our interview.

“We are renowned amongst our clients for our specialist knowledge and the ability to come up with often a novel solution where our customers identify gaps in product ranges. Being relatively small, we are also able to adapt easily to any changing market requirements, quickly ensuring that no matter the needs of our clients, we can respond in the time frame required.”

“Chell Instruments has developed solutions to fill an extensive range of unique customer needs – from standalone to bespoke leak testing and calibration facilities for every measurement device we supply. This has resulted in an ISO17025 accredited UKAS calibration facility having some of the lowest uncertainties available outside National Standards, so that products purchased from us have the highest measurement integrity.”

The range of products available from Chell Instruments is vast and covers a wide variety of applications such as; aerodynamic pressure scanning, gas pressure measurement and control equipment, vacuum measurement and control, mass flow meters, systems and controllers, gas handling, gas purification equipment, bespoke test and calibration systems, and a UKAS calibration service.

For more information, please visit: www.cwst.co.uk or call: +44 (0)1635 279621 or email an enquiry to: eurosales@cwst.com.

Curtiss-Wright Surface Technologies offers a range of specialist metal surface treatments, protective coatings and processes for key industries.

We increase the performance and life of metal components by protecting them against premature failure due to fatigue, corrosion, stress corrosion cracking, fretting, friction and galling, as well as environmental and thermal erosion which often use our high performance metal surface technology.

Know what you are looking for? Click on our website link, www.cwst.co.uk where you will find a list of all these services below and what they are used for:


Conformal coatings from Curtiss-Wright Surface Technologies have been improving the life, strength and performance of critical components in key markets such as Aerospace, Automotive, Oil and Gas, Power Generation, Medical and General Industries for over 60 years through their network of over 70 worldwide facilities.

Our industrial metal coating and finishing facilities can treat and protect components of all shapes, sizes and complexity, producing our own tooling and equipment in house as needed. Our dedicated on site teams can be deployed for fixed or large components anywhere worldwide at short notice.

Curtiss-Wright Surface Technologies understands the challenges faced by customers to reduce costs and turnaround times while making metal components and equipment last longer and perform more effectively.

Our quality of service is a high priority so we ensure that our controlled peening and component coating facilities are fully accredited to current industry and customer standards including NADCAP ISO 9001:2008 and AS9100 Rev C.

Our metal improvement and component coating facilities use state of the art robotic equipment which has been designed and manufactured in house specifically for our customers’ work.

We keep in the forefront of new materials and surface and coatings technology by maintaining strong links with industry associations and being actively involved in research and development projects.

For more information, please visit: www.cwst.co.uk or call: +44 (0)1635 279621 or email an enquiry to: eurosales@cwst.com.
Compact and powerful forklifts

Clark has redesigned the robust CGC series LPG forklift, which is said to be particularly well-suited for lifting heavy loads in confined spaces. The cushion tyre forklifts range from 4.0 to 7.0tncms and have a very tight turning radius.

The models are designed for distribution, manufacturing, and warehousing of all types including the paper and pulp industries, and are said to be suited for the toughest applications. The trucks have hydrostatic power steering, and with only four turns, the operator can completely turn the truck. For comparison: The Clark C40 LPG 4.0tncm forklift with either super-elastic or pneumatic tyres has a turning radius of 2,849mm, while the CGC70 7.0tncm forklift has a turning radius of 2,729mm. This means that the CGC70 can lift items more with nearly the same turning radius. When it comes to the aisle width, the CGC70 with a width of 4,425mm also tops the C40, which has an aisle width of 4,836mm.

With its solid construction and stable mast design, there is a large residual load capacity at greater lift heights.

The CGC series was developed according to the Clark concept ‘Built to Last’. The one-piece vehicle frame consists of heavy-duty welded sectional steel sheets that protect the vehicle and driver against impact damage and aim to ensure the forklift has a long service life. The protective driver overhang (guard) protects against falling loads and gives the driver an excellent surrounding view to safely move the load into and out of racking areas.

Contact T +49 (0)2065 49913 232

Global Barcode and Made4Net now installing Unitech’s wearable offering

Smart, connective hands-free mobility

Working in intensive picking environments requires all the hands to be free. Whether a warehouse or in transport and logistics, hands-free work increases productivity. The W65100 offers a cost-effective, practical and healthy solution to these issues. The terminal can be strapped to the user’s arm using an ergonomically designed strap, weighing just 273g. Combined with a ring scanner, both hands can remain free during work without interfering with the workflow.

Ergonomic, user friendly and lightweight

The terminal features a lightweight design including a 4” touch screen, suitable for jobs where boxes are needed. The W65100 design is suited for both left-handed and right-handed people. The W65100 supports MicroSD up to 32GB, features an 8 MP camera with flash for barcode reading and a 2,950 mAh quick charging battery.

All-round connectivity and accessories

Improving the efficiency with the lightweight and user-friendly design is increased even more by combining devices from the Unitech compact scanner range, such as our MS6210 ring scanner. Overall connectivity is strengthened by the addition of WWAN capabilities with 4G-LTE support, Dual Band WLAN 802.11a/b/g/n and Bluetooth 4.0.

Handling & Storage Update

Want to store light to heavy loads in one machine?

Handling goods with a wide range of sizes and weights is part of everyday life in the storage and retrieval processes for stock or WIP of many companies.

Not only are businesses duty bound to be focused on creating safe working environments for their staff, but also on the need to keep as many staff as possible productive and therefore usable.

The goods-to-person method enabled by Automated Storage and Retrieval Systems (ASRS) answers many of the needs of warehouses which need fast access to goods which require some form of mechanical assistance for lifting.

Further handling goods with a wide range of sizes and weights is part of everyday life in the storage and retrieval processes for stock or WIP of many companies.

Added to this, businesses need highly flexible processes so that new product lines can be freely brought to market.

Not only are businesses duty bound to be focused on creating safe working environments for their staff, but also on the need to keep as many staff as possible productive and therefore usable.

Faster, more flexible, economical & ergonomic

The entry level Shuttle is the XP250, we have other models in the range too.

To keep control of the cost of the machine, Shuttle trays of different load-bearing capacities can be used within a single machine allowing the simultaneous handling of heavy storage items and large quantities of small parts.

Want to store light to heavy loads in one machine?
Large-diameter pipe lining leads way to wildlife revival

DAMAGE specialist Lane’s Drainage has used fold-and-install large-diameter lining technology to rehabilitate a pipe that will play a crucial role in creating Europe’s largest man-made nature reserve.

It has deployed a pillow packer to install a series of point repairs inside a 2,200mm diameter inlet pipe supplying water to an area of land being turned into the Woodways Island Wild Coast.

The Royal Society for the Protection of Birds, which manages the site on the Thames Estuary in Essex, has a 20-year project to turn farmland into a wildlife-rich saltmarsh twice the size of the county. It is staffed by on-call firefighters recruited from the nearby community.

Work on the conserved building, which dates from 1879, was led by main contractor, SDC Builders and took just over a year to complete. The Gaia Hydronic underfloor heating system and an air source heat pump were the key elements to a package provided by G-Core, which offers a full planning, design and installation service for ground and water sources, as well as air source heat pumps.

Michael Regis, who designed and co-ordinated the project for G-Core, commented: “The main contractor laid the high density insulation required to take the weight of the fire engine when it is full, and Gaia completed the installation of its Hydronic system, including the manifest. Gaia performed very well in terms of both the design detailing and the installation, and was very responsive to required changes to the specification of the LHF system.”

Contact T +44 (0)1242 227723 www.tlv.com/global/UK

TLV Euro Engineering introduces Steam System Optimisation Program

TLV Euro Engineering has introduced the Steam System Optimisation Program (SSOP) in order to help customers further improve safety, reliability and profitability.

The sustainable asset management program is designed to optimise an entire steam system through visualisation. The sustainable asset management program is designed to help bring energy consumption from air conditioning to times when it’s necessary – and switches it off when it’s not, based on occupancy.

On CP Electronics’ win and the detector, the RAC Cooling Awards Judging Panel 2018 said, “A simple and practical device to install in rooms with infrared remote-controlled single AC units.

The environmental benefits were obvious in saving on energy in cooling unoccupied space.

“It is not unreasonable to believe that a payback within 12 months can be achieved. It could benefit both new built and retrofit markets through the rapid installation and the subsequent low maintenance.”

As well as being environmentally friendly, one of GEMA’s biggest benefits is its versatility. The GEMA-AC can be hardwired via USB, meaning developers can specify the unit to build energy efficiency into the framework and infrastructure of their buildings.

"It is not unreasonable to believe that a payback within 12 months can be achieved. It could benefit both new built and retrofit markets through the rapid installation and the subsequent low maintenance.”

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Innovations in Design-to-Manufacture

The TCT Show, held at the NEC in Birmingham every year for over 20 years, is one of the world’s leading design-to-manufacturing exhibitions showcasing the very latest and greatest services and products in additive manufacturing, 3D printing, design, and engineering technologies.

Comprising of a packed 3 days, the event holds numerous live shows conducted by speakers and professionals from all over the globe along with learning zones, demonstrations, product launches and world-class conference and seminar programmes. And with 300+ exhibiting companies and more than 10,000 visitors from over 40 countries, the TCT Show is one of the largest in its kind.

Reasons to attend in 2019:
1) Keep up-to-date with Industry advances and the latest technology
2) Network with your peers, the leading players in the industry
3) Broaden your knowledge and be inspired by the world-class conference programme
4) Find solutions to current and future design and manufacturing challenges
5) Meet vendors and get all the information you’ll need to make informed purchasing decisions in the coming year.

For more information on how you could exhibit to promote your services or products at next year’s show at the NEC in Birmingham on 24-26 September 2019, visit the website below or use the following contact details.

This is our pick of the best exhibitors from last year’s show, listed here in alphabetical order: Graphite Additive Manufacturing, Manchester Metrology, MEAN WELL, Paragon Rapid Technologies and Simufact Engineering. Further details can be found below.

Contact
T +44 (0)771 182199
john.jones@rapidnews.com
www.tctshow.com

MEAN WELL introduced the latest fan-less power solution at TCT Show 2018

MEAN WELL presented its latest power solution at this world-leading 3D printing trade fair. Across the 3 days show, TCT attracted more than 10,000 visitors from over 40 countries for the latest innovation in additive manufacturing, 3D printing engineering technology.

As the leading standard power manufacturer, MEAN WELL presented the new fan-less UHP series ranging from 200W to 1kW, the versatile enclosed RS/LRS series certified with industrial and household appliance standards and the premium industrial adaptor GST series with over 10 worldwide approvals covering 90% global market.

With over 9,500 models and new product launch on nearly weekly basis, plus the 24/7 delivery service, MEAN WELL is confident to be your Reliable Power Partner for 3D printing as well as other applications.

Contact
T 0031 207586000
marketing@meanwell.eu
www.meanwell.eu

Graphite Additive Manufacturing: 3D Print Services

Helped to improve performance with the freedom of design that AM offers. From Plenums to Manifolds, Brackets to Weldments, our Carbon filled SL5 injectors have helped Team Bath to stay on track and ahead of the chasing pack.

We were delighted with how the show went and very pleased that we have managed to strengthen relationships with clients and suppliers as well as finding some new customers, one that led to a composite enquiry in excess of £200K.

2019 is set to be another big year for Graphite AM as we continue to expand. Digital Manufacturing is here to stay and we at Graphite AM are delighted to be leading the industry.

Contact
T +44 (0)1296 482673
sales@graphite-am.co.uk
www.graphite-am.co.uk

Simufact Additive 4 in the starting blocks

At the TCT show in Birmingham, Simufact has given first insights into their new Simufact Additive release – a dedicated simulation solution for metal AM. Simufact Additive is a scalable, practitioner-oriented simulation solution predicting distortion, stress, and temperature effects.

Simufact Additive 4 convinces with new automation and assistant functionalities for an even better ease-of-use of the software, such as the automated distortion compensation, the automated support optimization, the best-fit method or the build orientation assistant. These new functionalities guide the user through the simulation process workflow and support him achieving a right-first-time print.

Furthermore, users can now consider the effects of pre-heated base plates or build spaces and can achieve more accurate simulation results for fully nested base plates and build spaces.

Another focus point for the new release is to strengthen the process chain capabilities: Simufact’s open software concept allows interfacing with third party solutions in the AM process chain, such as OEM build preparation software.

Cam Dake’s simulation experts have ensured that Simufact Additive 4 underlines our ambitions to provide the best overall process simulation package – concerning speed, accuracy, functionality, and usability,” states Dr. Gabriel McBurn, Simufact’s Senior Director Product Management.

T 0049 40790228000
info@simufact.de
www.simufact.de

Done prototyping? Start producing

Simulaton moments have reproduced like echoes throughout the digital manufacturing era. Every breakthrough in scanning efficiency, enabling customisation and increasing speed to market has been heralded as ‘innovative’. Few have been true flash points for change.

That is, until the arrival of Digital Light Synthesis™ (DLS) technology from Carbon. This disruptor technology really is transforming the design process and economics of 3D printing. DLS enables 3D production in high volume manufacturing across a huge array of applications and industry sectors, from progressive to performance seating, from medical products to fluidic devices and automotive parts. Now, thanks to a recent move to slash and cap pricing of resin, the process possesses a cost down curve to rival injection moulding.

Paragon Rapid Technologies, a market leading Innovation Services Company providing state-of-the-art manufacturing solutions is currently Carbon’s only UK production partner. As a company, we see the launch of DLS as a fundamental jump-off point for new technologies to impact our way of working.

In Spring 2019, we will be launching a series of events to teach DLS design techniques to customers and will be opening a dedicated DLS facility.

Contact
T +44 (0)1255 333341
info@paragon-e.com
www.paragon-e.com

The pioneers and innovators of metrology

Manchester Metrology LTD are pioneers and innovators of metrology offering specialist contract measurement services. Offering support across the UK and worldwide our attention to detail and helpful attitude towards our customers are among the many positive attributes which distinguish the company as a benchmark metrology company.

Our team of engineers are highly trained in the use of Faro arms providing onsite inspection services and support in many industries such as Oil & Gas, Automotive, Aerospace and Rail.

With our non-contact HD Laser Scanners, we can provide a CAD comparison service with detailed reports to suit customer requirements and also offer a Reverse Engineering service to produce true to form 3D data in .stl file formats and also full parametric CAD modeling in multiple file formats.

Using our Faro portable/3D Laser trackers, our trained operators are able to measure accurately large scale objects such as Jigs & Fixtures, Machined Components, Fabrications, tools and many other engineering processes.

With the use of our Faro and Leica laser trackers with a range of 305 metres, we can provide accurate alignments of shafts, bearings, machine centres and motors to gears, where there is no reference data such as CAD or drawings, this is a necessary requirement for industries such as manufacturers of submarines and power stations.

Whether you're looking for a refresher or are new to metrology, our experienced trainers have a structured course to suit your engineering processes' requirements, offering onsite or online tuition on a variety of software’s such as PolyWorks and Geomag.

Contact
T +44 (0)161 637 8744
info@manchester-metrology.co.uk
www.manchester-metrology.co.uk

Industry Update is sponsored by Eurotec Environmental – see them on page 21
Leading the way in Display Solutions

Industry Update is sponsored by IEW – see them on page 8

Industry Update is honoured to announce Display Technology as the recipient of this month’s Display Solutions Company of the Month for their expert knowledge and bespoke solutions to the touchscreen and display technology market.

Interactive screens are fast becoming the desired way to interact with the consumer. From high street food chains using touch screens to give the customer the freedom to choose their meal, to transport companies cutting down on queuing times with automated ticket machines, touch screen displays are leading the way in which people interact with the world.

For all their benefits they are not without their issues; but thankfully Display Technology is leading the way with solutions to protect these high investment displays from being damaged by the inevitable clumsiness of the consumer.

We had the opportunity to discuss Display Technology in greater detail with Richard Murton, Managing Director.

“Display Technology Ltd is a TFT display and touch screen specialist and we have a number of different areas of business based on providing all the components for display solutions; from the simple supply of individual components through to finished standard and bespoke finished monitor solutions. Our product range is not limited to, but includes: industrial displays, high brightness TFTs, touch screens, embedded computing and display kits.”

“We also offer the service of product customisation. In the case of touch screens, Infinite Touch is our customisable projective capacitive touch screen. You define the glass cover, touch foil and sensors in order to deliver a customised product perfect for your application, offering the freedom of touch in screen sizes 3” up to 85”. Optical bonding is another key service we offer. Using the process of Vacubond®, optical bonding adds an extra protective layer to your display.”

The Vacubond® optical bonding process involves bonding a cover glass or touch screen to an LCD cell which then protects the screen from day to day potential hazards. An adhesive, such as silicone gel, epoxy or urethane, is used to eliminate air gaps by inserting it between the cover glass and the LCD. Although different adhesives can be used within the optical bonding process, Display Technology uses a high-performance silicone Opto a-Gel to achieve the best results ensuring quality and performance.

Infinite Touch is Display Technology’s projective capacitive (PCAP) touch screen solution. Projective capacitive touch technology detects the change in capacitance of a local electrostatic field when a conductive object such as a finger or stylus touches the front of the touchscreen or cover glass. Infinite Touch enables unlimited design implementations by optically bonding the PCAP touch sensor to the rear of a cover glass.

Successful companies like Display Technology are only as good as they are because they push innovations and rise above the competition. We asked Richard what he thinks elevates Display Technology in their industry.

“Our product and service portfolio allows us to provide a complete solution. From initial drawings and design right through to production and installation. We understand that one size does not fit all. We take on bespoke project requirements and design a solution that’s right for the application. Ultimately we sell more than just a part number.”

Also Display Technology recently acquired Display Solutions and Components Bureau Ltd, increasing the range of products and skill sets within the UK organisation. Display Solutions have a strong focus on high brightness/embedded solutions through the likes of Lutema and Axiomet. Integrating these ranges with the existing support products within the Fortec group will increase the opportunities and allow the combined customer base to have access to a number of exciting new products.

To see the full range of products and services Display Technology are able to offer from stock to bespoke solutions visit the website below, to discuss your needs in detail with the friendly, professional team who’ll offer the best solution for your requirements, call or email using the below details.

Contact
T +44 (0)1634 672755
info@displaytechnology.co.uk
www.displaytechnology.co.uk

Infinite Touch is Display Technology’s projected capacitive (PCAP) touch screen solution. Projective capacitive touch technology detects the change in capacitance of a local electrostatic field when a conductive object such as a finger or stylus touches the front of the touchscreen or cover glass. Infinite Touch enables unlimited design implementations by optically bonding the PCAP touch sensor to the rear of a cover glass.

Display Solutions Components of the Month

Electrical & Electronics Update

Electrical installation training for apprentices

Hamilton Listerstat is providing electrical installation training aids to apprentices at the Kings Langley Campus at West Herts College, Hertfordshire, in an attempt to curb the current industry skills shortage and support the next generation of qualified electricians.

Through its relationship with local wholesaler Grant & Stane Hemel Hempstead, Hamilton is supplying West Herts College with purpose-built smart control wiring boards for use during their electrical training courses. These interactive demonstration boards allow them to learn how to wire Hamilton’s Smart Lighting Control and Multi Room Audio systems and help them gain experience and confidence in wiring smart control solutions.

The Hamilton training boards feature a mock layout of a house with LED lamps positioned in various rooms. Attached to the board is a 4-channel 5 Smart Dimmer pack as well as a 2-channel audio pack. The apprentices can wire up various circuits in the house as requested and control the system using a push-button or touchscreen control plate.

Due to the misconception of complicated programming processes, the adoption of smart controls and smart technology amongst qualified electricians has been stilted. Hamilton is continuing its efforts to combat this misunderstanding it’s Smart Lighting Control Challenge, which has run in various exhibitions and free training courses at its facilities in Mere have gone some way to help those who want to embrace the ‘smart era’ change.

To check course availability or to discuss arranging a group booking on an alternative day, email: technical@hamilton-liststat.com.

IS-Rayfast: Supplier of choice for Harness Components and Associated Products

IS-Rayfast Ltd is a supplier of high performance harness components and electro-mechanical products to key markets including Aerospace, Defence, Energy, Industrial, Medical and Motorsport. Supported by an experienced sales team, with technical specialists across the various sectors and products, we ensure our high quality product portfolio of carefully selected stock meets the wide diversity of our customer requirements, as well as meeting international standards and specifications.

IS-Rayfast aims to provide exceptional levels of service that include:
- Next day delivery from stock
- Dedicated external technical sales engineers
- Bespoke stock tailored to meet your specific market requirements
- Extended office/warehouse hours

Complementary products
- Full technical support
- A range of value added services.

Visit is-rayfast.com to download our FREE catalogue with over 500 pages of harnessing products at your fingertips including buying guides and technical support or call and request a copy today.

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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.

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AI: the white whale of retail?
Martin Kelly, Managing Director Big Group Retail (pictured) on the big trends in digital and in-store retail

In the first half of 2017, over 2,000 high-street shops closed their doors across 500 British cities. It seems like a bad time for brick and mortar, but is it all bad news? While it’s true that many household names are trimming the fat by closing down underperforming stores, the rise of e-commerce is taking a surprising turn.

From clicks to bricks
Over two billion people use their smartphone or tablet to shop online. Yet there’s still plenty of demand for physical shops: 95% of users enlist the help of their devices to look up local information like branch locations and opening times.

The conversion conundrum
The problem is that getting people through the door is only the first step. Once inside, customers are turning to their smartphone to cross-check prices online and surf for a better deal. So, what can retailers do to turn up their conversion rates and prevent their brick-and-mortar stores from issuing out to e-commerce?

Radical retail
By focusing on ‘connected consumer engagement,’ bringing cutting-edge technology, like virtual changing rooms, interactive digital display screens and proximity beacons onto the shop floor, brands and retailers can bridge the gap between physical and digital shopping to boost the customer experience.

T +44 (0)1634 524055
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www.biggroup-retail.co.uk

Drives & Controls Update

Innomech: Custom automation specialists

Another excellent Medtech Expo event earlier this year in April at the RICOH Area, Coventry, with increased visitor numbers to our new stand. The event provides an opportunity to meet with existing customers and medical device manufacturers.

GB Innomech Ltd designs, builds and installs bespoke automation machines for the manufacturing industry. Working with medical device manufacturers, Innomech develops bespoke equipment to solve key production challenges, improving productivity, capacity, and quality to reduce failure rates and costs, whilst meeting customer and regulatory demands.

Our services include:
- Consultation
- Feasibility Studies & Prototyping
- System Design and Build
- On-site Support

For further information or to discuss your automation project, please contact:
T +44 (0)1353 667394
info@innomechgroup.co.uk
www.innomech.co.uk
www.twitter.com/innomech

New ranges of stainless and spring steel fasteners

A brand new range of 12-18mm safety clips is now available from SD Products website. These fasteners are manufactured from high grade spring steel, offering excellent stress and corrosion resistance, as well as ability to withstand considerable forces without any distortion. Safety clips are well suited for both domestic and industrial applications and can be easily installed or removed by hand.

Several new lines of stainless steel connector bolts and nuts have been added to our furniture fastener range. Connector bolts are designed to be used with connector caps nuts – not applying an axial clamping force and the shank of the bolt acting as a dowel, preventing the joint against sideways shear forces. Our connector bolts are suitable for a variety of furniture applications, flat low profile bolt heads allowing for a decorative finish.

We have increased our range of mild steel slab base and composite materials like wood and plastic to a workpiece. Produced to ISO 9001 standards and supplied by leading steel specialists, we now offer a complete range of stainless and spring steel fasteners.

Contact
T +44 (0)1623 655265
sales@sdproducts.co.uk
www.sdproducts.co.uk
Steps and Stillages Ltd: Manufacturer of Storage and Distribution Equipment

The company are proud to design, develop and manufacture a range of stillages, roll cages, roll pallets, trolleys, containers, garment rails and safety steps. In addition to this, the company also manufacture a selection of other equipment for varied applications across the manufacturing, horticultural, warehouse, industrial, retail and distribution industries.

The company are currently based in Kettering and have made it their mission to offer clients a first rate product at a low price, producing a large range of bespoke products if and when required. With over 40 years’ experience in the industry, the company work hard to produce the best stillages and trolleys on the market. They currently have 4, top of the range, robot welding lines that produce large volume orders at competitive prices. In addition to this, the company also stock a large amount of standard products which are available today and dispatched immediately. Similarly, they also stock a large amount of second hand roll cages and stillages which are incredibly cost-effective, and are thoroughly checked before they are dispatched.

It is important to note that the company have recently increased their range of plastic pallet boxes. They have over 600 standard pallet boxes in 3 colour choices in standard pallet size (1,000mm x 1,200mm); however, they also stock smaller quantities of different sizes for customers who require a tailored range.

In a recent interview with Steps and Stillages Company Director, Graham Reid, we asked Graham what benefits the company offer their clients that their competitors do not. “Our main advantage is our ability to manufacture custom products at sensible prices. We have over 40 years’ experience producing stillages and trolleys for major retailers and manufacturers in all manner of shapes and sizes. Moreover, there are not many companies in UK who will make relatively small quantities of a custom sized stillage, or a trolley of a certain height to fit different applications, yet we pride ourselves on doing just this.”

Graham also told us about the company’s two new business divisions, Gas Cages and Spill Control. The company’s Gas Cage division will specialise in gas cylinder storage cages and cylinder handling, whereas the spill control division will offer clients a one stop shop for spill control and spill containment products. This will include budget price sump pallets and additional high quality versions, with a range of absorbents to clean up any spills.

Contact
T +44 (0)1536 417440
www.stepsandstillages.co.uk
www.sandsgascages.co.uk
www.sandsspillcontrol.co.uk

Pulsar Process Measurement

After a short break, 2018 saw the return of Pulsar Process Measurement at Hillhead.

Quarrying is one of the many industries where the detection of blocked chutes, level measurement and pump control is important, however the remoteness of many applications means their monitoring becomes difficult without using non-contacting level and flow control.

Pulsar Process Measurement offer products for various applications that can offer continuous level measurement, sprayer control, loading level monitoring, monitor bin, silo and stock pile levels. Pulsar also offer drainage water level monitoring and pump control, crusher control, blocked chute detection, non-invasive pipe flow monitoring, diesel and storage tank levels, monitoring of discharge flow and non-contacting velocity x Area metering.

Our open channel flow solutions are MCERTS Class1 certified, meaning you get accurate reliable data each and every time.

Hillhead 2018 was a chance for us to showcase our low-cost, non-contacting, zero maintenance ultrasonic solutions. The Pulsarguard 2010 Acoustic Sensor demonstration proved very popular for demonstrating block chute detection. Overall, the show was a success with a high quality of visitors and lots of sales leads to follow up on.

Contact
T +44 (0)1684 891371
F +44 (0)1684 575985
www.pulsar-pm.com
Crowcon launches dual range portable monitor, Gas-Pro TK

Crowcon Detection Instruments has launched a new dual range portable monitor to add to its acclaimed Gas-Pro range. Gas-Pro TK has been designed for use in specialist inerted tank environments to monitor levels of flammable gases and oxygen. An environment where standard gas detectors will not work.

In Tank Check mode, the Crowcon Gas-Pro TK (rebranded from Tank-Pro), monitors concentrations of flammable gas and oxygen, checking that an unsafe mixture is not developing. It uses dual IR sensor technology which detects the spectrum of possible flammable gas concentrations from high %vol to low %LEL. The device auto-ranges, switching between %vol and %LEL as gas concentration demands, without manual intervention, and notifies the user as it happens.

The Gas-Pro TK is available calibrated methane, propane or butane. With IP65 and IP67 ingress protection, Gas-Pro TK meets the demands of most industrial environments. With optional MED certifications, it is a valuable tool for tank monitoring on-board ship. The optional High H2S Sensor addition allows users to analyse possible risk if gases vent during purging, as well as the potential risk from pyrophores. With this option, users can monitor over the 0-100 or 0-1,000ppm range.

T +44 (0)1235 557700
sales@crowcon.com
www.crowcon.com

Workplace safety innovators, A-SAFE, have re-engineered their Height Restrictor to bring even more customer benefits. A-SAFE is committed to providing workplace protection and safety solutions that are designed to minimise risk, injury and damage.

The A-SAFE Height Restrictor offers guidance and physical protection, guarding against damage to vulnerable corners, columns, door openings and overhead assets such as sprinkler systems and ventilation pipes.

This modularity comes about thanks to two coupling mechanisms: the iFlex coupling which is a key component of the A-SAFE flexible polymer barrier range, and unique to the company’s energy absorption system; and the new in-line coupling which enables the product to be adapted to the customers’ needs in terms of vertical height.

Being easier and quicker to assemble means there is even less disruption to day-to-day activity during the installation process. Reducing dissonance and minimising downtime is an important goal throughout the product’s lifetime. Thanks to A-SAFE’s exclusive self-coloured polymer composition, high visibility is ensured and its inherent strength and durability further supports the ultra-low maintenance solution. The unique composition of the A-SAFE polymer gives the height restrictor a unique capacity to flex, absorb impact and dissipate impact forces whilst retaining its integrity.

As the inventors of the world’s first industrial strength polymer safety barrier, A-SAFE’s aim across its entire range is to give each customer the tools to create a safer, best practice working environment. The Height Restrictor complements this, and integrates seamlessly into the A-SAFE range of workplace protection solutions, adding valuable protection to busy environments.

www.asafe.com

BP Whitehouse Services in Okehampton become the first forecourt to install GripHero, which sits on top of every fuel nozzle on the forecourt, ensuring that drivers can retrieve and wear hand protection without fist coming into contact with fuel handles. Research shows that fuel pump handles are typically 11,000 times dirtier than the average loo seat.

Contact
T +44 (0)1837 811035
www.griphero.com

Optical hand protection dispenser that enables drivers to avoid contact with contaminants on fuel handles, has started the distribution of what it describes as the world’s first antistatic, fully recyclable hand protection solution across the UK.

www.griphero.com
The Medical Waste Game Changer

We featured Eurotec Environmental as our Waste Management Company of the Month for their innovative and highly successful solution to the clinical waste management sector, and their close work with the NHS. After catching up with them throughout the rest of the year to interview with Paul Barker, General Manager at Eurotec Environmental, it was clear that their continual strives and achievements are deserving of our Waste Management Company of the Year Award.

During their award presentation at Eurotec Environmental’s Sterilwave Plant at Barts Health NHS, Whipps Cross Hospital earlier this month, Paul Barker announced, “We are very pleased to accept this award as recognition of what we have achieved since going live at Whipps Cross Hospital 2 years ago. The clinical waste sector is going through a turbulent time at present and receiving awards such as this highlights our commitment to providing the NHS with the most compliant, sustainable and cost-effective method of managing clinical waste and insulating them from the issues that many NHS Trusts and Boards appear to have experienced this year.”

“Barts Health NHS Trust and Whipps Cross Hospital in particular have been very supportive and we are especially thankful to Sustainability Lead for NHS Improvement Fiona Daly and Trust Waste Manager Neil Allen. Special thanks also go to our technology partner Berlin Technologie who manufacture the Sterilwave machine that is at the heart of our service and could not be a more supportive partner. Our biggest thanks however, go to our fantastic on-site operational Plant team at Whipps Cross Hospital who are the people who do the hard graft so this award is as much for them as it is for anyone.”

Eurotec Environmental uses industry proven and market leading technologies such as the Berlin Sterilwave machine to reduce an organisation’s costs, improve their sustainability and a reduced carbon footprint and also increasing the organisation’s compliance with waste and environmental legislation.

Established in 2013 by Chairman Tony Burrows, Managing Director Terry Hewitt and Finance Director David Chappell, based in Kings Hill in Kent, Eurotec Environmental’s aim is to be the leading supplier of clinical waste management solutions to the NHS and any other organisation in need of their specialist services.

At the heart of Eurotec Environmental’s process is the Berlin Sterilwave unit, making it the most innovative and sustainable on-site medical waste treatment service seen by the NHS in over two decades. Their modern waste process intelligently grinds and microwaves the waste into a sterile RDF that is safe to handle and used as a high calorific fuel in Energy from Waste Plants.

Eurotec Environmental’s solution is designed to treat a hospital’s Alternative Treatment (AT) and Offensive Waste (OW) streams (which make up around 80% of a hospital’s total clinical waste output) on the producers premises. By reducing the volume of these waste streams by 80% on site, Eurotec Environmental reduces the collection of waste from the usual daily pick-ups by the traditional clinical waste contractors to one collection every 1 to 2 weeks. This reduces the hospital’s waste disposal carbon footprint by around 30%, significantly reduces waste vehicle movements on the hospital site, which greatly improves safety and the air quality in and around the hospital environment.

Eurotec Environmental’s solution clearly has an incredible and varied range of benefits from financial gains to logistical simplification and as Paul Barker explains, Eurotec Environmental’s service has even more features that excel their service above the competition.

“Our service is a much more compliant, sustainable and more cost-effective method of managing a hospital’s clinical waste and provides significant safety benefits over what anyone else is doing right now.”

“We are very different to the traditional method of managing a hospital’s clinical waste when, for the last 20 years, the waste contractor has sent HGVs from their site every day to the hospital site which is, on average, 60 miles away. They then load the HGV with around 3.3 tonnes of clinical waste which is contained in 770 litre specialist UN approved bins and then transported back 60 miles to their incineration plant. This is already understood by the sector as being a highly inefficient process. Incineration is also very unpopular in the UK and can, if not correctly operated, produce significant quantities of heavy metals, furans and dioxins along with other potentially hazardous substances. The waste products that occur from the incineration process (contaminated lime/carbonite/hornblende) are also considered hazardous and must be specially disposed of in a limited number of permitted sites in the UK.”

“Our solution is markedly different. In recent years, two new waste categories have been created by the EU and adopted by the Environment Agency (EA) to help the NHS segregate up to 80% of their clinical waste into cheaper, lower temperature processes, rather than send all clinical waste to expensive incineration plants. These categories are called Alternative Treatment (AT) and Offensive Waste (OW) Our Sterilwave service has been approved by the EA to treat these waste streams on the hospital site which completely de-risks the hospital from the off-site non-compliant waste issues that appear to have been happening in other parts of the sector this year.”

“Our process intelligently grinds and then microwaves the waste into a sterile RDF that is safe to handle and can be used as a high calorific fuel in Energy from Waste Plants. Our process also reduces the volume of the waste that we treat by 80%. This means that the existing daily collection of these waste streams by traditional waste contractors reduces dramatically to one collection every one to two weeks. This reduces the amount of carbon miles by up to 30% and significantly lowers vehicle movements on the hospital site, which greatly improves safety and the air quality in and around the hospital.”

“Unlike the existing clinical waste contractors, our pricing is fixed for the period of the contract (5, 7 or 10 years) and because we operate on the waste producer’s site there is no need for Consignment Notes as the Hazardous Waste is made safe before leaving site. The current issues in the clinical waste sector have already lead to significant increases in pricing and all market indicators show that these prices will continue to grow throughout 2019 and beyond. However, our pricing has remained very competitive and by providing the NHS with fixed price contracts (subject to RPI) we protect them from these predicted steep clinical waste cost rises.”

Their incredible success has led to more NHS sites taking on their system and the future is already primed to be full of success for Eurotec Environmental as Paul Barker explains.

“In March, we agreed contracts with Bouygues E&B FM UK Limited to provide the UK’s largest Sterilwave Plant at the West Middlesex University Hospital (WMUH) which is part of the Chelsea & Westminster NHS Foundation Trust (C&W). This Plant will become operational in early 2019 and will treat WMUH’s AT and OW waste initially before taking in the same waste streams from the Chelsea & Westminster hospital too. We have already begun to implement a Behaviour Change programme at WMUH to ensure that the AT and OW streams are correctly set up within the hospital to ensure that the Trust maximises the savings available to them when the Sterilwave Plant goes live.”

It’s obvious that the innovations Eurotec Environmental has strived to achieve, and the amount of sites already benefiting from this fantastic solution has resulted in only success for this company. We will be keeping an excited and close eye on Eurotec Environmental through 2019.

To find out more, visit their website today or alternatively to enquire about how their systems can support and manage your waste more efficiently and cost-effectively, use the following details to get in touch.

**Contact**

T: +44 (0)3303 112807  
 info@eurotec-environmental.co.uk  
 www.eurotec-environmental.co.uk
A hat trick that our clients will tell you is well deserved

TC Security Services, part of TC Facilities Management (TCFM), have not only been placed in the top 2% of all SIA listed companies within the Approved Contractor Scheme in the UK, they have also passed the ISO 9001 and 14001 management systems audits which come into force last month.

The 4 day visit by both auditors involved full scrutiny of the TC Security Services operations and for the ACS audit included visiting both the Head Quarters and satellite offices along with a mix of varied customers.

The maximum overall scores on the ACS audit that can be achieved is currently 375 points. TC Security Services’ score of 346 places them not only in the top 3% of all SIA listed companies within the Approved Contractor Scheme, it also showed an increase in the score awarded by the auditors in 2017.

All this shows TC Security Services as one of the very best security companies in the entire country.

Coupled with this was passing the ISO 9001:2015 and 14001:2015 management systems audits which come into force last month.

Fourth these new quality standards which came into effect on September 14th 2018, been audited and passed each time.

Both achievements mean that potential and existing customers have the confidence that not only has our service been independently assessed against recognised standards and procedures, it also offers added peace of mind that all the security personnel have been correctly trained for the role they are performing and our quality and management systems meet these ISO standards.

Contact
T +44 (0)1737 840106
info@tcfm.co.uk
www.tcfm.co.uk

Byotrol® launches 4 in 1 multi-purpose cleaner to disrupt janitorial market

Byotrol, the antimicrobial technology specialist, has launched a new patent-protected multi-purpose cleaner and disinfectant, consolidating multiple cleaning and disinfectant credentials with exceptional performance against stains and odours.

Byotrol’s 4 in 1 Multi-Surface Cleaner Disinfectant Spray is fast-acting, kills 99.99% of bacteria and viruses and offers long-lasting antimicrobial protection against microbes and odours for up to 24 hours, even in frequently touched areas. It also contains a patent-protected polymer that allows for easy removal of stubborn dirt and stains, including those resulting from organic matter.

The product is supported by a full microbiological test data pack including testing against H1N1, Influenza A (H1N1) Listeria and MRSA. It is supported under the European Biocidal Products Regulation and can be used safely in areas where pets and animals frequent.

The opportunities for its use in professional environments are numerous and the product is particularly suited to areas with a combination of hard and soft surfaces. Where current products are limited to one task, the Byotrol 4 in 1 Multi-Surface Cleaner Disinfectant Spray can be used for multiple tasks, reducing the necessity to purchase and store several different products.

Byotrol’s 4 in 1 offers cost-benefits and significant peace of mind for those responsible for protecting customers, employees and other stakeholders in sectors such as education, leisure, facilities management and healthcare.

Further information about Byotrol® and the 4 in 1 Cleaner Disinfectant spray can be found at: http://byotrol.co.uk/portfolio-items/byotrol-multi-purpose-cleaner-disinfectant-spray

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TC Specialist Services Services bringing an extra sparkle to Poundland stores

TC Specialist Services, part of TC Facilities Management (TCFM), handed over the contract for another well known high street retailer recently. The contract being utilised for window and door cleaning services to deliver high performance standards over the entire store and as an extra service was the cleaning of the windows and external signage across the country.

The contract being delivered by a team from TC Specialist Services, part of TC Facilities Management (TCFM), started last month.

It provides window cleaning services to every Poundland store, the fixed admin offices in the UK along with each DeWalt store in the Republic of Ireland. The team from TC Specialist Services are ensuring that the standards of appearance to the windows and external signage of each site will help to create a welcoming, fresh and engaging environment for Poundland’s customers and suppliers.

The contract utilises innovative software which will help to deliver robust scheduling, monitoring and management reporting to the customer.

Steve Wengrow, Divisional Director, TC Facilities Management said, “Having previously provided services to about half of Poundland stores, we are delighted to now be providing our services to the complete portfolio. This award of contract has been a result of building relationships over a 5 year period that demonstrates our efficient and proactive response to our client’s needs, particularly by our helpdesk, led by Abby Telford.”

Steve Wengrow, Divisional Director, TCFM added: “Our team have worked incredibly hard to secure this win and are looking forward to demonstrating to Poundland our innovative approach to delivering a great service.”

T +44 (0)1737 840106
info@tcfm.co.uk
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Pondland’s customers and its’ staff have benefited from this relationship over a 5 year period.

Further information about Byotrol® and the 4 in 1 Cleaner Disinfectant spray can be found at: http://byotrol.co.uk/portfolio-items/byotrol-multi-purpose-cleaner-disinfectant-spray

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T +44 (0)1737 840106
info@tcfm.co.uk
www.tcfm.co.uk

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