International wood flooring brand Havwoods has unveiled its new collection of engineering oak parquet panels. The latest introduction to the design from Havwoods’ range, a beautiful feature can be created with ease from a choice of 15 distinctive geometric patterns.

A superior selection of pre-fabricated wood panels, each design features a genuine reclaimed oak lamella, sourced from age-old historic structures. Unlike traditional parquet flooring, where each wood piece is installed individually, Havwoods full 800 x 800mm panels are manufactured in the workshop, saving time for on-site installation. Once fabricated, those individual panels can be used across a whole floor scheme for dramatic effect or placed as a single feature when laid with coordinating planks from the Havwoods engineered collection.

Embracing the natural characteristics of wood, the Design from Havwoods panels’ engineered oak construction offers a high-quality, high-performance and durable board, which can be laid over underfloor heating. The 20mm thick blocks are stained with a rich mid-oak tone and finished with an oil coating to help create a more resistant surface. These oils are also micro-porous and water repellent, protecting the wood while also further enhancing the beauty of its natural characteristics.

A revolutionary new product from Modular Building Blocks is generating a lot of buzz thanks to its ability to provide simplistic and tailored solutions across a wide range of industries. EverBlocks offer a flexible solution to builders, designers, architects and many other industry professionals by providing a semi–permanent building material that can be re-used and redesigned.

The modular building blocks, which are currently being distributed in the UK by Modular Building Blocks, are made from a high-impact polymer that is designed to provide solid and stable structures that are easily cleaned and long-lasting. The blocks are currently available in a wide range of sizes and colours, making them suitable for a range of purposes in residential, commercial and industrial environments.

T 020 3795 9090
info@modularbuildingblocks.co.uk
www.modularbuildingblocks.co.uk
We’re all celebrating smashing the TCFM £5K challenge, after just 5½ months of the charity partnership going live.

This has been achieved through a number of activities, but most notably bagging up unwanted toys, clothes, CDs, books, DVDs and a whole host of other household items that are then sold in the BHF charity shops across the country.

Everyone has tried to get on board to help our charity partner, the British Heart Foundation. They conduct ground-breaking research in to heart and circulatory diseases and their causes.

The remainder of the year will see colleagues at TCFM continue with the BHF’s Bag it! Beat It! campaign along with other activities that are being planned on a more local basis.

BHF were selected by TCFM as a way of providing more than just their specialist services to the charity’s network of Furniture and Electrical stores where we professionally clean every item of donated soft furnishing.

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Editor Recommends

Celebrations with a lot of heart

Three colleagues working for drainage and utility specialist Lanes Group plc have each won national awards for their inspirational dedication to the health and safety of others. Jack Gale, Kelly Hansford, and Andy Brierley have won RoSPA Inspiration Awards which recognise the contribution that individuals make to occupational health and safety.

Lanes Group

Director Andy Brierley, pictured centre, has won a RoSPA Distinguished Service Award, which is given to safety professionals or campaigners who make a sustained and long-term contribution to health and safety. All three colleagues work for Lanes Utilities, which is responsible for surveying, cleaning, unblocking and repairing drains, sewers and wet wells for Thames Water.

Jack Gale has been awarded the RoSPA Inspiration Pride Award which recognises acts of heroism in a life-threatening situation, while campaigning for health and safety, or when selflessly helping others.

Kelly Hansford is to receive the Influencer Inspiration Award, which recognises individuals who have made the biggest impact on health and safety in the previous 12 months. Andy Brierley is the lead director of Lanes Utilities, which employs 1,400 people, and carries out 1,400 jobs for Thames Water every day. He is also chair of water company’s health and safety leadership team.

Lanes Utilities’ focus on health and safety has contributed to its accident frequency rate falling to zero at the end of 2018, the illnes frequency rate falling by 30% and employment churn falling by 57%.

T 0800 526 488
www.lanesfordrains.co.uk

TC Facilities Management (TCFM) achieves £3M in new sales

TC Facilities Management (TCFM) has secured multiple new customers for the delivery of Cleaning & Window Cleaning Services in the Wholesale, High Street & Commercial Office sectors across the UK.

The contracts, worth £3 million per annum, will see over 300 colleagues join TCFM up and down the country since the contracts started going live from 1st March, 2019.

The Operations team from TCFM, jointly led by Jason Smith, Head of Operations for Scotland and Cosmin Tecuta, TCFM Contract Director, will deliver cleaning services to over 100 sites for 14 new customers.

The contracts have been awarded based on TCFM’s proven track record spanning over 55 years, along with their ability to listen to the bespoke needs of each Customer towards delivering what is really needed. As one of the UK’s top cleaning services providers the new operating environments will benefit from TCFM’s rigorous systems and state-of-the-art technology to help maintain and improve standards in each site along with delivering robust monitoring and management reporting to each customer.

Keith French, Business Development & Strategy Director, TCFM, who led the contract win said, “We are delighted to have been awarded these contracts and are looking forward to bringing our proven expertise to each and every customer along with playing our part in making each site a great place to work & visit.”

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Kingston Engineering

Over One Hundred Years Of Engineering Excellence

Established 1919

Engineering Excellence

A History Built On Engineering Excellence

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

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

Contact
www.kingston-engineering.co.uk

Please call +44 (0) 1482 325676 or email sales@kingston-engineering.co.uk

Our Heritage

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

It is this dedication to advancing our skill level and our ability to constantly evolve and innovate that is characteristic of the our story. This still remains the very cornerstone of Kingston Engineering today and the very measure of our success as precision engineering experts.
Drainage specialist Dallmer unveils its new individual shower channels

In response to the growing demand for level-access showers, Dallmer has added two more new flush-in-floor shower channels to its DalFlex system. Its new shower channels for flush-in-floor installation are CeraFloor Individual and CeraFrame Individual. This brings the number of Dallmer shower channels that can be combined with a single drain body to an impressive nine!

Invisible and still aesthetic

CeraFloor Individual is the elegant shower drain body to an impressive nine! channels that can be combined with a single drain body to an impressive nine! Invisible and still aesthetic

CeraFrame Individual is a compact, short shower channel for flush-in-floor installation. The only thing you can see is a discreet 300 x 50 mm rectangle. The covers of both shower channels can be individually tiled enabling them to blend harmoniously with the bathroom landscape. As well as the tileable version, these new products are also available in stainless steel and with a matt PVD coating in the colours anthracite, rose gold and brass.

Contact
Dallmer Ltd
01787 248244
www.dallmer.com

Head and eye protection become one with the new EVO®VISTA™ Helmet from JSP

The new EVO®VISTA™ Helmet is an innovative next generation feature rich helmet which incorporates a fully retractable optical class 1 faceshield or overspecs over the helmet. JSP’s Research and Development team were inspired by feedback received from people who regularly have to wear hard protection alongside eye protection. A common theme was not only the compatibility issue but also the amount of eyewear lost or damaged on site after issue.

The EVO®VISTA™ Helmet has not only been designed to meet a standard but to exceed it on many levels. It combines a super strong ABS shell with the choice of either a EVO®VISTA® or a EVO®VISTA™ retina depending on the levels of protection and performance required.

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

JSP prioritise the needs and safety of the wearer and the safety cell concept of the EVO®VISTA™ Helmet with the dual shell technology demonstrates this commitment by providing additional protection. The safety cell prevents re-tangling debris travelling up the eyewear and being in contact with the scalp as well as preventing the faceshield or overspec from impacting the scalp should it be forced back on impact.

The EVO®VISTA™ Helmet is fully compatible with JSP respirators such as the Force™ PressToCheck™ and the Sonis® helmet mounted ear defenders range. The benefit of having eyewear integrated in the helmet which is fully retractable and protected from scratching when not in use, easily deployed when needed and fits anyone with prescription spectacles will save companies money, time and worry.

https://jspsafety.info/EVOVista
Caring for calves

Within this issue of Industry Update, we have chosen to feature The Calf Company as the recipient of our Livestock Specialist of the Month.

Managing Director Alan Barrow, first established the Calf Company in 2008. With their base in Cheshire, the company offers their customers an abundance of services including calf milk replacers, housing, supplementary products, specialist embryo services, calf health and advice.

"How I would describe our services is that we are a specialist calf consultancy company, because we have our own breeding unit, we are able to provide tried and tested products backed up with solutions to maximise the needs of livestock farmers," therefore adding value to your business, Alan Barrow, Managing Director.

As calf rearing specialists, The Calf Company offers a complete package for livestock producers, with the highest quality produce and livestock. Included within their product range, a selection of Premium Milk Replacer options and Calf Supplements, expertly developed to provide the best nutrition for the specific breed, age and requirements for the calf, the range provides a wealth of growth and blossoming needs and is suited to both dairy and beef calves to grow into the next generation of livestock.

The Calf Company looks after their customers through care and experience. Proud of their mission of "Caring for the next generation," The Calf Company delivers expert advice on care services such individual feeding plans, producing a tailored plan made from their own knowledge of calves and customer’s needs. "The way I explain it,” Alan continued, “Our way of thinking is that if you don’t ensure from the outset that the calf has received the right start, even in its foetal stages, then it will cause problems later, it’s like a cob is missing from a machine – it will not work as efficiently as possible."

Producing the highest quality care for calves and heifers is of utmost importance to The Calf Company who ensure that all of their products and services meet the highest welfare standards within their calf housing options, they meet all EC rules and legislation. The Calf Company also provides the best care for their livestock on their breeding unit in Cheshire. "We pride ourselves on offering a fully rounded service with customer service before and after sales to make sure our customers and calves receive the best treatment," says Alan Barrow.

Looking after your eyes with Bondeye Optical

Industry Update is pleased to announce Bondeye Optical as its Optical Company of the Month, home of over 3,000 products.

Award-winning Bondeye Optical covers all your eye wear and care needs with a seemingly endless range of products from the most reliable sources and brands. Founded in 2002 by Dave Walker and Louise Keeney, the company operates from its main base in Warwickshire, with a further site located in Mansfield. Bondeye is an one stop shop for all optical requirements, with an impressive product line hosting over 3,000 products. Despite covering a notably broad spectrum of purchasable goods, the company finds its business dominating in optical equipment, accessories, eyewear, merchandise, software and eye healthcare.

Bondeye prides itself in its quality of service, with 90% of its orders being dispatched the very same day, and each customer having a Personal Account Manager, ensuring that their needs are met with a care that exceeds expectation. All the products that Bondeye sources are of the highest quality, which only adds to the consistent reliability of the company and guarantees the inevitable expansion of its client base.

The company is prolific in its support of smaller independent practices, wherein they are able to build personal relationships with clients and tend to them attentively. This gives Bondeye the advantage of being able to effectively offer advice, recommend products and solutions that can help their business. Bondeye can also deliver various eye healthcare products directly to the patient, circumnavigating the need for clinic pickups and the subsequent hassle and elongated delivery that often comes with it.

Bondeye offers a customer attention scheme, wherein it doesn’t simply sell products, but works with customers in order to create and develop new ideas. The company values the significance of adapting to new available technologies and incorporating old methods with new facilities, and has subsequently played a key role in the evolution of image enhancing software. The software is revolutionising the way in which the eye can be viewed and subsequently is improving the optical healthcare that patients receive.

The software (AOS) can analyse any digital image from any device, including smartphones, and is able to grade to gold standards, count, enhance, measure and visualise conditions to provide accurate and precise results.

The company plans on investing more into product development, securing its position as the head of its game. Bondeye plans on further diversifying its product range, and continue its substantial growth, in doing so reaching more customers and covering a greater range of needs. For more information, visit the website or call the number below.

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T +44 (0)1266 869253
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www.thecalfcompany.co.uk

The Calf Company in a range of trials have shown that milk powders provide a greater live-weight gain than whole milk-based diets, and a recent study indicated that they do so at a lower cost, using milk replacer rather than whole milk will save you up to £31.08 per calf over eight weeks to weaning. Milk powders offer calves reared a greater level of flexibility, management ease and disease control. We also guarantee consistency, quality and a superior nutrient content with added vitamins and pro-biotic aids for gut health.

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Caring for the next generation!
Opti-Diesel is ready to halve UK fuel emissions

Opti-Diesel was set up in 2012, in Halifax, West Yorkshire. They specialise in making 1 litre of fuel more efficient. Thereby, reducing greenhouse gas carbon dioxide emissions as a traditional fuel without additives would allow.

As such, it is important that those in industries such as automotive, who contribute considerably to climate change, take the steps needed to reduce their effect as much as possible. Opti-Diesel uses a unique combination of reactions, including fuel use reductions and catalytic reduction, in order to significantly slash the amount of harmful and toxic emissions released from the vehicle.

In addition to reducing the amount of fuel needed, as well as lowering the amount of emissions released, there are a number of beneficial reasons to opt for Opti-Diesel.

This includes it being a low hazard material that is easy to use and easy to utilise. All the user need do is add the additive directly to existing fuel, or if needed, they can also add large amounts of Opti-Diesel to bulk tanks. For those thinking of using Opti-Diesel with their vehicular fleet (such as delivery companies, haulage companies, etc), it is recommended that you use a properly calibrated dosing system for bulk dosing.

The additive has no negative impact on existing emissions controls system or engine wear and can be added to fuel at distribution points whether in individual fuel tanks during refuelling or via direct injection into the fuel as it is being pumped into the vehicle engine. Better yet, Opti-Diesel can be used with practically any vehicle as the additive requires no specialised equipment to install or utilise, and it requires no modifications to the existing vehicle’s engine.

With such a wide range of benefits, it’s easy to see why Opti-Diesel has made such a splash in the industry. Not only does it reduce the amount of fuel needed to travel, it also reduces the cost of fuel as less is needed, whilst reducing toxic emissions and harmful gasses. Numerous tests have been done around the world to confirm the validity and reliability of Opti-Diesel and its ability to improve Specific Fuel Consumption (the amount of fuel needed to perform work).

In fact, real life tests showed within just 400 miles, there was already a marked improvement in fuel consumption and a reduction in carbon emissions. With the ability to transform the way we think of fuel consumption, Opti-Diesel has been a hot topic in multiple industries and has been tested in numerous countries around the world. One of these includes an internationally recognised South Africa-based mining firm who added Opti-Diesel to their bulk refuelling tanks via a calibrated dosing system.

Over the course of a year, they experienced a 12.34% reduction in fuel consumption, a 75% reduction in carbon monoxide, a 99% reduction in Nitrogen Monoxide emissions and a 55% reduction in Nitrogen Dioxide emissions, leading to 91% reduction in total Nitrogen Oxides, and finally a 47% reduction in harmful diesel particulate matter. Of course, this was topped by excellent maintenance and cost savings as well.

Smoke/opacity tests were conducted by leading trucking company Collett & Son were conducted on two modern vehicles to determine the impact on modern truck engines. A 26 tonne Scania rigid vehicle with a Euro V engine and a 44 tonne DAF tractor unit with a Euro VI engine. Both underwent ‘before’ and ‘after’ smoke test on the same test machine.

The first test carried out on the 16/2/2017 on the Scania showed a smoke-opacity level of 0.22. The vehicle then had Opti-Diesel added to its fuel and was re-tested having travelled 980 miles since the first test. The second test on the 22/2/2017 showed an opacity/smoke level of 0.05. A reduction of 77.27%, which is consistent with previous results on earlier engines. A similar test carried out in March of a Euro VI engine (the cleanest standard available) in a 44 tonne DAF tractor unit recorded a reduction in smoke of 50% (0.02 to 0.01).

Both improvements in smoke-opacity were achieved within 1,000 miles of being treated with Opti-Diesel.

Testing on a range of different engines under both laboratory and live conditions in different countries including the UK have all recorded a range of improvements in fuel consumption and reductions in emissions. As will be seen in this document the range of improvements is significant, outstanding and impressive.

Fuel consumption improvement: 3.5% to 15.53%
Carbon Monoxide (CO): 68.8% to 81.4%
Carbon Dioxide (CO2): 5% to 8%
Nitric Oxide (NO): 99.6% to 99.6%
Nitrogen Dioxide (NO2): 54.5% to 58.8%
Particulate Matter (PM): 50% to 89%

Given that Opti-Diesel can be added to any engine without modification or change, it has the potential to be used in far more than your average car. Opti-Diesel Innovations have plans for their catalyst to be used in everything from heavy machinery to stationary engines (for example, those used for emergency power generation) and on engines in ships.

Going above and beyond in all areas of the business, Opti Innovations also prioritise giving their customers only the best and most excellent customer service possible. They champion loyalty, honesty and ensuring each client gets the very best in accordance with their needs. In addition, they also offer great after sales support, with a dedicated, fully trained and knowledgeable team of staff on hand to give customers expert advice and guidance.

If you are looking to reduce the carbon footprint of your vehicle or even fleet of vehicles, and would also like to save some money, then don’t hesitate to get into contact with the team at Opti Innovations to discover how you can reduce your supply of Opti-Diesel. If you would like further information on the company or product, feel free to check out the website.

T 01422 349188
W www.opti-diesel.com
Electric vehicles are gaining momentum around the world, with more and more major cities increasingly switching to electric buses for public transport. The global Durr Technik Group devotes itself to all aspects of “e-mobility” and has developed oil-free compressors that are powered by their own electric motor(s). These compressors offer energy savings with fewer pollutants in the “Automotive” sector.

For vehicles over 3.5 tons, a reliable and robust compressed air supply is essential – for applications ranging from brake release air to door opening to air suspension. Instead of mechanically connecting the existing compressors with the vehicle’s engine in a conventional manner, the newly developed and efficient Durr Technik compressors have their own electric motor(s). These are extremely environmentally friendly, run independently of the vehicle engine and only draw power when needed, meaning very low energy consumption.

The compressors that we manufacture are oil-free meaning oil control or oil changes are a thing of the past. Coupled with their compact and robust design, very low noise/vibration, low whole life costs, ease of installation and the fact they are almost completely maintenance free, they can be installed into many positions within the vehicles that would have been impossible in the past.

Depending on the product selected our compressors can achieve temperature ranges of between -40 and +400°C and can be operated with a duty cycle of 100 percent.

Contact www.duerr-technik.com
UNISIG Deep Hole Drilling Systems

Established in 1981, UNISIG has over the years garnered a glowing reputation as a leading global provider of deep hole drilling machines, accessories and related services. After being acquired by Entrust Manufacturing Technologies and relocating to Wisconsin in 1995, the company saw heavy investment, previous industrial limitations were contested, and UNISIG began stretching the boundaries of what could be achieved in the industry. Today UNISIG offers an unrivalled state of the art product line, installations of which can be found throughout North and South America, Europe and Asia.

UNISIG works closely with its customers to ensure that appropriate solutions are provided and requirements are met to the highest level of specificity feasibly achievable. The company boasts a lengthy history of achievement, through which customer satisfaction is consistently met irrespective of technical challenges. Regardless of a customer’s experience in deep hole drilling, UNISIG is happy to help, and consult customers on ensuring that they receive the most cost effective and efficient support possible. The company also invites its customers to visit its Wisconsin production facility while their machine is in the manufacturing process to witness how the machines are constructed, and to see for themselves the kind of standards that UNISIG adheres to when putting together its machinery.

The machines that the company produces are all manufactured by engineers that have a comprehensive understanding of the industry and its challenges. All UNISIG engineers are trained in advanced 3D modelling and simulation tools, which leave UNISIG capable of producing virtual prototypes. Throughout the engineering process, the company applies various ISO, DIN and AGMA standards, which ensure that UNISIG adheres to the highest standards and regulatory stipulations. All castings, forgings and weldments are sourced locally, and all critical components are manufactured in the company’s Wisconsin facility, wherein handsome investment has been poured into equipment, tools and training.

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

Over the last 12 months, the company has launched an additional five models in its USC-M product series. The machines offer deep hole drilling and milling centred for the mould industry.

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

As well as introducing new products to its already extensive range, UNISIG has recently begun the process of upgrading pre-existing models. UNISIG’s Philipp Steimle tells us “We are currently upgrading our UNI and UNE series of drilling machines, which are mainly used in industrial environments, contract manufacturing shops and the medical field. Simplifying integration of automatic loading and versatility will reduce cost and lead times significantly.”

The installation of UNISIG UNE series machines is simple and painless, and includes training at UNISIG’s training facility to ensure that new operators are given the opportunity to familiarise themselves with machine operation and process optimisation. The machines are designed to house technology that supports accurate and efficient drilling as well as having smart controls for intuitive operation and setup, all of which is achieved while the machine remains cost effective. The machines drill with high levels of precision, and they can handle prototyping, job shop and medium volume production environments without stress, making them extremely efficient.

The UNI series machines are production deep hole drilling applications that have been designed specifically for high accuracy at high volumes, and are able to create a flawless solution for more tasking applications. Making the largest impact at the lowest cost the UNI machines fuse known, reliable components with new and innovative technologies, all of which come as a result of UNISIG’s own leading research and development. The machines offer an impressive and diverse range of functions and capabilities, including gundrilling options, BTA drilling or a combination of the two, and frequently integrate conveyors, robotics or other automation technology in order to optimise production.

Future plans for the company are to continue to provide the quality of products and services that the company has become so well known for, as well as increasing its presence throughout the international drilling community. Philipp Steimle says “As a supplement to this global presence, UNISIG attends over 15 shows every year to raise awareness of their products and services. The most important show this year will be the EMO show in Hannover, where we will show a robot loaded gundrilling machine on our booth. As well as being present at numerous trade shows, UNISIG also has a website where you can find out more information about their full range of machines and technical services.” For more information on UNISIG, see the details below.

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Bruce Clothier, CEO at Fraser Anti-Static Techniques, explains why industry is switching on to the advantages of DC supply in static control.

As the demand and capability for speed in industrial processes has grown, so has the issue of static electricity. Static has contributed to increases in dust and contamination, wastage and rejects, as well as health and safety issues such as shock to operators, risk of explosion, and more.

Manufacturing companies and OEMs are finding static a growing problem across many sectors, including plastics, packaging, printing, process and automotive industries – in fact, wherever non-conductive materials are processed.

Traditionally, anti-static solutions powered by an AC supply have provided good ionisation performance, particularly in short-range applications - and some longer range when combined with compressed air. Fraser Anti-Static’s AC product range remains popular, and includes bars, airguns, air knives, blowers and the innovative new Roto-Clean ring ioniser that neutralises the static charge, cleans and prevents re-attraction of dust or particulate contaminants in injection moulding applications. But there is always a better way.

Fraser pioneered a new approach to static elimination with the launch of its first DC anti-static bar in 2009. With high voltage power generated through the electronics and controls built into the Jupiter bar, an AC supply was no longer required. This has provided more flexibility over where the bars can be mounted on machinery or equipment, while increasing operational safety and reliability.

We then focused on exploring how to enhance the performance, control, feedback and monitoring of static eliminators, resulting in the introduction of our NEOS range of 12kV, 20kV and 30kV bars in 2015. Widely regarded as the most important development in electrostatics this decade, NEOS bars feature an ‘intelligent’ sensing capability that can adjust the ionisation required to achieve rapid, targeted static neutralisation in even the most challenging situations, such as on the complex machine geometry of a turret rewinder which generates a high static charge. By realising optimal results, the improvement in performance using a NEOS bar can be up to 40% greater than competing products of the same voltage.

Speed and distance have become less of an issue because efficient static elimination is possible at speeds of 2,000m/minute, as well as distances up to 1.5m. These DC bars can also be integrated with a machine’s PLC for control and feedback of operational status, also indicating when the bar needs cleaning.

March 2019 heralded the global introduction of a new variant of our 30kV bar for OEMs with automated range control. Ideally suited to winding machinery or converting applications, the NEOS 30 OEM bar allows the ionisation frequency and distance to be directly controlled via the customer’s PLC as the diameter of the reel changes.

Fraser has also made great strides in advancing our Ionstorm pulsed DC eliminator for wide area and multi-bar applications, where the operator can easily adjust the polarity, frequency and power on the controller. And June brought another industry first with the launch of the world’s smallest 24V DC short-range static eliminator bar with built-in electronics. Available in lengths of 150mm or 200mm, the 3024 Compact is ideal for fast moving materials at speeds up to 1,000m/min and well suited to web and sheet applications where space is a constraint.

A polar opposite problem for industry – quite literally – is the need to create static charge in some applications. We also have a range of DC static generation equipment, including the UL certified 30kV IONFIX Compact Generator that enables temporary adhesion of materials in industrial processes such as in-mould labelling or cast film extrusion. And we will continue to innovate in DC, providing static control solutions that help our customers maintain lower production costs and increase productivity.

Indeed, it is testament to our ongoing investment in R&D that we offer the widest choice of internationally certified and quality assured 24V DC static eliminators available in the market today.

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www.fraser-antistatic.com

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Weigh price labelling specialists

DIGI Europe Ltd was recently awarded the Weigh Labelling Company of the Month feature. Established in 1989, they are the wholly owned UK subsidiary of Teraoka Seiko, which has been running since 1925.

Based in Haverhill, Suffolk, DIGI Europe Ltd are market leaders in the development and supply of advanced industrial weigh price labelling equipment for industry and retail. Working with a range of sectors, they supply equipment for red meat, poultry, fish, vegetables, dairy, bananas and ready meals. They have been at the forefront of weigh price labelling technology for 30 years, and their superior products are used by numerous of the world’s leading food processing and distribution companies. With a wide selection of products, DIGI Europe Ltd offers comprehensive solutions for a plethora of weigh labelling requirements.

We spoke to Victoria McKenna, Pre Sales and Marketing Coordinator, about what makes DIGI Europe Ltd stand out among its competitors.

“Essentially, we are professionals in our field. We specialise on weigh price labelling equipment for the world’s food production facilities, which means we have a focused expertise in the food industry and the market area of our customers. Through years of experience and discernment, we are able to offer advanced technology that is continuously being developed to keep up with the demanding market requirements, and in doing so means we can keep a step ahead of our competitors.”

DIGI Europe Ltd always aims to maintain a presence at various trade shows, and will be attending the IFFA exhibition in Frankfurt, between the 4th and 9th of May. IFFA is the leading international trade fair for the meat industry and this year, DIGI Europe Ltd will be revealing three new and updated products.

The exhibition will help to get their new machines out and in front of potential customers, offering a middle ground to show people their recently developed technology. They also usually meet with other subsidiaries of the DIGI group from around the world, who often bring their customer base with them. This means DIGI Europe Ltd can promote their new machines to an extensive range of potential customers. What’s more, they can bring along their retail machines with them as well, offering a crossover of industrial and retail solutions that customers might not have access to or be aware of outside of the exhibition.

These machines are new versions of the HI-700, Mi-700 and Li-700D standard machines. The HI-700 is a high speed dynamic weigh price labeller, offering flexible label handling for increased production line efficiency. The PC-based machine allows easy integration with the user’s existing machines and networking, and the dynamic weighing and high speed labeller offer up to 120pmm, which increases productivity. The colour touch screen allows easy and quick programming and PLU selection, and the machine has a quick release conveyor system. With fast application, the labeller has a large label roll diameter and a 300dpi thermal print head.

The Mi-700 is an automatic single frame weigh price labeller, with similar benefits to the HI-700 including a colour touch screen, quick release conveyor system and a 300dpi thermal print head. In addition to these, it can produce packs up to 80pmm and comes in a compact design, so its single frame can be fitted into a production line where line length is limited.

What’s more, it can be combined with a sleever/ C’wrap type machine; the unique software and hardware communication package combined with the ease of a multi pin connection means the combining of these machines is a trusted and reliable process.

Finally, the Li-700D is an entry level dynamic weigh price labeller, offering a single framed module design and a three-conveyor machine. It is PC-based like the HI-700 and Mi-700 machines, and due to its compact design, it can be fitted into production lines with limited line space. Offering line speeds of up to 65pmm, its classic labeler is flexible with a choice of thermal head sizes and label applicators.

The new versions of these machines, which will be revealed at the IFFA show in May, offer higher speeds and more efficient technology. The HI-700 HS, Mi-700 MS, and Li-700D LS are updated, stainless steel machines, providing adjustable conveyors for a smoother transition and in doing so will assist with accurate label placement on every pack. These new and improved devices are streamlined to offer precision when labelling items. In addition to these machines, DIGI Europe Ltd will also be showing their DPS800 manual weigh price labeller at IFFA, an established popular machine with their customers.

Recently they moved into supplying retail equipment as well as industrial, and this venture has led to DIGI Europe Ltd’s technology being used in numerous high-end stores. Indeed, this retail technology has taken off just as quickly as their industrial machines, meaning their customer base is constantly expanding.

“Because we are taking on even more customers, we are now expanding our team, as well as our premises to cater for the increasing demand. Every department at DIGI is growing, and we are placing a lot importance on all staff members within the company, by offering extra training to nurture the skills and experience we already have in the team.”

It is clear that DIGI Europe Ltd is an established expert in weigh price labelling equipment, offering specialise knowledge and experience to provide industry and retail with the most appropriate solutions for their requirements. If you would like to find out more information about DIGI Europe Ltd’s products, head to their website or use the contact details below.

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Mixed architecture diagnostics down to the last device

What started with a request from a colleague from the Support Department, resulted in the development and testing of the Diagnostics slave functionality of PROCENTEC’s ProfiHubs. With this brand-new functionality PROCENTEC delivers diagnostics of networks with a mixed architecture of different protocols, down to the last device. Dave van Cappelle of PROCENTEC’s Research & Development (R&D) team explains: “With this new functionality we can track down and pinpoint occurring errors and events in an industrial network very precisely, which helps in preventing downtime. Also, the data collection from the ComBricks and ProfiHubs can be done quick and easy by using our mobile diagnostics tablet PROCENTEC Mercury.”

Receive and read diagnostic data from ProfiHubs with ComBricks.

A support engineer from PROCENTEC who just returned from a troubleshooting job at a water treatment plant in England, requested a functionality to look even deeper into a network without having to reprogram the software of a programmable logic controller (PLC). His support job involved a very large network that consisted of PROFIBUS and PROFINET protocols. If it would have been possible to collect data from the installed ProfiHubs through the ComBricks on this job, he would have been able to find the location of the corrupted cable faster than in the current situation. The R&D department immediately recognized the potential of this concept: with such a functionality industrial automation engineers and maintenance managers would save a lot of time signaling possible events and errors in their industrial networks.

ComBricks and ProfiHubs: a powerful combination

For many years, end users around the world have been relying on PROCENTEC’s ComBricks and ProfiHubs. Therefore, it was very important to develop and comprehensively test this new functionality.

ComBricks make it possible to monitor PROFIBUS and PROFINET networks 24/7. The status of the installation can be checked remotely and over Ethernet via a web browser. The ProfiHub is a multichannel network component that is used to create reliable star / tree networks and complex branches. ProfiHubs are used as signal repeaters and to segment networks, making them more stable and reliable. By combining the strengths of ComBricks and ProfiHubs it would be possible to look through the ProfiHubs’ channels using the ComBricks web browser all the way through the entire network.

The programming of the new software for the ComBricks Head stations and the ProfiHubs went smoothly. With many years of working experience at PROCENTEC, the R&D team was able to complete the programming without major setbacks. Programming is one thing, but how do you know if you have thought through all possible scenarios that might occur? Dave and his team had to think of a fitting setup that would test this new functionality profoundly.

Mixed architecture diagnostics down to the last device

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

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

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

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

The new kilogram definition eliminates the need to rely on a physical object located in one place, providing limitless and previously unimaginable access to mass measurement accuracy. METTLER TOLEDO is pleased to have been part of the effort to make this new definition a reality.

To see a brief, exciting trailer for the video, please visit - https://youtu.be/9tR08_1X4

To view “Everything Different, Nothing Changes” in its entirety, please visit - https://youtu.be/62IK019Z71s

Additional information about METTLER TOLEDO can be found at www.mt.com
Industry Update is pleased to feature Fridgenius for our Commitment to Excellence profile, for the company’s innovation and consistent dedication to the industries it serves.

Established in 1995 by Managing Director David Slydel, Fridgenius provide solutions for operating a Solenoid Valves manually. Since then, the company has grown and is now considered a leading supplier of Solenoid Valve Operating Magnets, working with both national and international markets, and are based in Dorset and Hampshire.

Fridgenius' Chris Slydel tells us “The Fridgenius Solenoid Valve Operating Magnet is a tool designed to convert electrically operated solenoid valves into hand operated valves in seconds. It is available in three sizes, 10 mm, 15 mm and 18 mm, and fits all makes of solenoid valves. The tool enables service engineers to operate valves manually and greatly assists during installation, recovery of refrigerants, and commissioning and decommissioning of plant and machinery.”

The tool is ideal for service and maintenance engineers. With its simplicity and ease of use the tool has revolutionised industries, and can be used in Refrigeration, Air-conditioning, Water, Oil and Gas and HVAC installations. The Solenoid Valve Operating Magnet is similar in shape and size to a large cotton reel, and upon being placed on a solenoid valve, causes the armature to open or close. The tool also eliminates the need for engineers to have to wire up a system, as well as worrying about selecting the correct voltage. In emergency scenarios, including coil failure, the magnet can be used to sustain the operation of a system while a replacement coil is identified and installed.

The magnet can be used to service, test, diagnose or manually operate a direct connected or pilot operated system, and can also be used to keep a solenoid valve open throughout the recovery of a refrigerant, offering access to its system. The tool is versatile and is a must have for anyone working regularly with solenoid valves.

At a refrigeration exhibition, one engineer praised the company on its “superb product”, recounting that while watching a rugby match on television, he received a call from a customer informing him that the customer’s plant was warming up. He realised that the solenoid coil had burned out, but by using the Fridgenius Solenoid Valve Operating Magnet, he was able to run it permanently, setting it to cut out under pressure, and the engineer managed to get home in time for the end of the rugby match!

The Solenoid Valve Operating Magnet is available in any colour, and can be printed with your company logo or branding. The company’s main clients are both national and international tool suppliers and distributors. The company's future plans are to continue to provide top quality service to its customers, and to introduce new additions to its product range, and contribute further to the engineer’s toolkit. Fridgenius attends trade shows, and you can find them in attendance at the HVAC & Refrigeration Show at London Excel next January.

T 02380 323745 enquiries@fridgenius.co.uk www.fridgenius.co.uk

If you need to operate a solenoid valve manually, you need a Solenoid Valve Operating Magnet!

Solenoid Valve Operating Magnets
02380 323745 enquiries@fridgenius.co.uk
PERFECTION IN THE REFLECTION

MARKET LEADING GEN-3 GLASSCOAT LIQUID GLASS HARDENED CERAMIC VEHICLE PROTECTION

GEN-3 Glasscoat is a our latest complex formula which is liquid glass that when professionally applied bonds to your car’s paint surface and forms a hardened Ceramic glass finish. It is one of many innovative and technically superior products supplied by Paintseal Europe Limited. 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 you car looking newer for longer without the need of waxes and polishers.

Please visit www.gen-3glasscoat.com
Paintseal Europe Ltd, 93-95 Whitby Road, Slough, Berkshire SL1 3DR
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-label 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.

Their Gen-3 FUSION on the other hand is where Paintseal Europe Limited excel in their research and development of an automobile protection system that raises the bar, protecting the paintwork and interior of a vehicle, keeping any car looking new for years longer. The Gen-3 FUSION Paint and Fabric Protection System features Titanium oxide glass ceramic enhancers and colour durability enhancers, providing outstanding protection for any vehicle; complete with a 3 year guarantee.

"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 excels 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.

To this end there are two new areas the company has expanded into. Their latest finance and insurance packs cover a whole range of key automotive areas such as SMART repairs, tyre and alloy wheels, along with offering a comprehensive Gap insurance policy to protect customers’ investments. With unique USPs and an in-depth knowledge of the dealers needs, Paintseal Europe Limited offers much more than anyone else in the market.

"We continue to develop new solutions for our clients, which is why we offer three levels of protection. Either way, we ensure our clients get the best protection for their vehicles."

"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’s exceptional GEN-3 Glasscoats have unrivalled ultimate protection of your vehicle. 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
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customerservices@gen-3glasscoat.com
www.gen-3glasscoat.com

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GEN-3’s Director of New Business and Operations, Sarah Powell, explains 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 replenishing by using a conservator 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 finish. 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 polishers.

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

www.gen-3glasscoat.com
High quality coding, capping and filling machines designed and built in England

Established in 1976 – packing over 40 years of experience and expertise in their field – Cap Coder are based in Oxfordshire, and has been a family run business over since its inception. Founded on trust and integrity, it truly is a company that cares, driven by a strong ethical code to do right by the customer. This is one of the many benefits of using Cap Coder, you’re guaranteed to have your needs put first by a team of technical experts eager to create a bespoke solution for the customer.

Cap Coder specialise in the design and manufacture of bespoke and standard machines for capping, coding, and filling applications. Cap Coder is well established in its field, serving a wide range of industry sectors, including: toiletries, cosmetics, pharmaceuticals, complimentary medicines, chemical, food and beverages. Within these sectors there is a wide range of products Cap Coder’s machines can be designed for use with, from nail varnish to nasal spray, from tomato sauce to paint – Cap Coder have it covered. All products can be handled by Cap Coder’s machines, including all shapes and sizes of bottles, jerry cans and other bottles, tamper evident caps, pump action spray caps and trigger spray caps.

Aside from the versatility and adaptability of Cap Coder’s machines to suit customer’s specific needs, Cap Coder also offer customers unparalleled customer service. Offering a proactive and supportive service, once the client has bought a machine, the customer’s experience does not end there.

Offering an excellent technical support service, experts from Cap Coder will be at hand to service machines and provide and change spare parts.

The team at Cap Coder pride themselves on getting to know the customer, gaining a deep understanding of their needs before undertaking any project. Delivering first class and flexible results, Cap Coder has its finger on the pulse when it comes to the latest technological developments in the industry. Seeking to continually adapt and respond to changes in the engineering and packaging industries, Cap Coder is constantly developing new products.

Its machines are ideal for a wide range of industries, and are all accredited to 9001-2008 build standard and come supplied with a Certificate of Conformity/Incorporation. The array of machines is impressive, meaning there is no company too big or too small for Cap Coder, and no project too specific. From screw cap tightening (to a desired torque), press on capping, plug insertion (including brushes, roll-on deodorant balls and dispensing nozzles), liquid filling, agitator ball insertion, conveyor, and ATEX zone 1 and 2 compliance; Cap Coder have it covered.

Moreover, all of the machines are made in England and designed in-house, with this ensuring the team have complete control over the entire manufacturing process. The end result? Capping, coding and filling machines which are second-to-none in quality.

T +44 (0)1865 891466 sales@capcoder.com www.capcoder.com

Thomson high-load ball screws provide maximum load capacity and longer life in a compact envelope

Thomson Industries, Inc. has introduced a ball screw with more than twice the load capacity of a standard ball screw.

The redesigned ball screws handle more than double the load capacity or provide 10 times the service life compared to standard ball screws at equivalent performance points – along with Thomson’s characteristic German-engineered precision, high reliability and exemplary stiffness. High-load ball screws are ideal for demanding motion control applications such as injection moulding, pressing and large fabrication equipment.

“By increasing ball size and optimising ball track design, we now offer a ball screw that handles more than twice the capacity of a comparable high-load ball screw,” says Jason Lenz, Thomson Product Line Specialist EMEA & Asia for Screws. “Thomson high-load ball screws minimise replacement and maintenance costs significantly for the application.”

This provides an ideal opportunity to replace roller screws or hydraulic systems in applications with axes that require accurate and safe movement of heavy loads, long and reliable life, and minimum maintenance.

These applications include:

- Large fabrication equipment, including mills, water jets, plasma cutters and automatic welders, which must control motion on horizontal and vertical axes.
- Injection moulding and metal fabrication machines, where ball screws can handle high loads in a short stroke with high precision.
- Metal pressing and forming applications, including rivet presses, servo presses, tube bending, metal sheet bending, test rigs and straightening machines.

Thomson high-load ball screws are available with up to 15 m screw lengths and with single or double nuts. They come in standard sizes up to 160 mm in diameter with up to 1,440 kN of dynamic load capacity.

Preloading options are available upon request, and Thomson will customise the ball screw to meet customer-specific applications. They provide smooth, quiet motion at higher speeds over a longer life. Lead accuracy is up to 12 µm/300 mm.

About Thomson

With more than 70 years of motion control innovation and quality, Thomson is the industry’s premier producer of Linear Ball Bushing® Bearings, and Profile Rail Bearings, 60 Case® Shafting, ground and rolled Ball Screws, Linear Actuators, Gearheads, Clutches, Brakes, Linear Systems, and related accessories. Thomson invented the Linear Ball Bushing Bearing in 1945, and has set the standard ever since with an unsurpassed set of mechanical motion control solutions serving global commercial and aerospace & defense markets. Thomson Industries, Inc. has facilities in North America, Europe and Asia with over 2000 distributor locations around the world.

thomson@thomsonlinear.com www.thomsonlinear.com
Experts in life extension of materials & critical components

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

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

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Not only do they need to be specially designed to precision specifications, but they need to be long lasting and properly maintained too. Curtiss-Wright Surface Technology can offer clients a comprehensive material treatments service that covers silicone, plastic and electronic components, coatings, shot and laser peening, material analysis, testing, repair and maintenance. Curtiss-Wright Surface Technology can provide mechanical and metallurgical testing services for a range of different materials and components through IMR Test Labs. Curtiss-Wright Surface Technologies uses only the most advanced technology and methods in order to conduct fatigue testing, thermal spray coating analyses, metallurgical and failure analyses, accelerated weathering and corrosion testing, weld testing and much more.

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

Their range of coating solutions includes thermal spray/HVOF coatings, solid film lubricants, liquid coatings, and parylene conformal coatings. Not only that, but Curtiss-Wright Surface Technology also offer repair and overhaul for gas and steam turbine components, as well as laboratory testing and process verification for salt spray corrosion testing, UV testing and development of their own bespoke coating systems such as Everlube®, Microseal, and Fluorene Lube-Lok®, sacrificial aluminium coatings, diffusion coatings and pre-treatments. Metal and material surface solutions are a huge part of why Curtiss-Wright Surface Technology has become such an internationally recognised name. In addition to their famous controlled shot peening process, the company can provide highly effective and controlled Laser Peening for components in turbine engines, aircraft structures, wind skins and more.

This specialist process puts exceptionally deep residual compressive stress in certain parts of a component to prevent crack initiation and fatigue. Not only does this allow the component to resist damage from erosion, strike damage, fretting, and corrosion, but it can also better withstand pressure from both low cycle/high stress and high cycle/low stress situations. Better yet, their laser peening ensures quality control, precise application and poses no risk of process contamination.

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

Components of any type can be damaged, such as blade roots, rotating rings and tie wire holes used in Aero-Engines, fasteners and stringers used in Airframes, and torsion bars, gears and keyways, which are used to make Crankshafts and more. Thankfully Curtiss-Wright Surface Technology have a large array of solutions, including but not limited to: C.A.S.E. isotropic superfinishing, Parylene coating, Thermal barrier coatings, Cathodic protection and much more.

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

www.cwst.co.uk
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www.cwst.co.uk
Kingston Engineering is one of the UK’s leading manufacturers of bespoke power screws and engineering services. Based in Hull, the company showcases their vast selection of materials and specifications designed to suit the needs of their clients’ precise requirements, which has led to them building an outstanding reputation and enabling them to provide for an expansive range of industrial sectors.

Through their vast successful history, dating back to 1919, Kingston Engineering has developed a rich heritage built on providing precision engineering. Kingston Engineering specialise in manufacturing Right Hand/Left Hand, single/multi-start, cut thread Power Transmission Screws and Nuts for over 60 years. Adaptable for mechanical power transmission, their products conform to the standards of British, European and American requirements.

“We recently spoke to Managing Director, Paul Bieblie, about how their screws have become so popular. He explained, “Kingston Engineering’s screws can be used in a range of applications across multiple industries. This includes in Aerospace, Oil and Gas, Nuclear energy, the chemical and medical fields, and much more. We work closely with both suppliers and manufacturers to provide the very best, customised and purpose built screws possible. We also have an ever growing base, with customers all across the UK and even further afield in the UK.”

Kingston Engineering takes pride in their unique approach to design, manufacture, and service, ensuring that each screw they produce is bespoke and meets the highest standards. Their commitment to quality and customer service has enabled them to establish themselves as a leading provider of precision engineering solutions.

All of Kingston’s products meet ISO 9001:2015 accreditation and are examined thoroughly during the manufacturing process. Kingston Engineering has benefited significantly from their renewed success, enabling Kingston Engineering to flourish within their industry and enabling the company to further their development and manufacturing processes.

In regards to the achievement of their 100 year milestone, Kingston Engineering has established themselves as an experienced manufacturer with a continuous devotion to advancing through constant investments in their products, throughout their 100 years of trade.

Excelling in engineering excellence, Kingston Engineering showcases 100 years of skilled, expert and customer focus based history. Through these advancements and changes in technology, the company has maintained its presence in the market and gained global recognition and presence. Business and Industry Today explored the company’s vast history and outlines how the company has gone from strength to strength, within each decade. The beginning of Kingston Engineering came after the devastating aftermath of the First World War. Originally starting in Hull, in their first site on Dansom Lane, the company started trading as Hull Motor Transport & Engineering Co., manufacturing pistons and providing cylinder grinding. Starting small, the company provided car and commercial vehicle repair within the local motor trade.

Maintaining its original prospects, is something that these early years, Kingston Engineering began to engage with their ethos of investing in the company, leading them to increase their skills through the installation of new modern machines. Their skillful reputation gave Kingston Engineering the perfect platform in growing and exporting globally, as their specialist screw manufacturing brought in a new market, expanding to Australia and South Africa.

The arrival of the sixties saw a shift in terms of counter sales for Kingston Engineering, the company moved from motor sales to industrial sales. Furthermore, the sixties contained many major development factors for the company including, investments in the factory, expansion in exporting, the purchasing of modern machinery, expansion of product range and an ‘Off the Shelf’ service introduced. The company now had extremely well-equipped workshops, enabling them to accommodate facilities for milling, shaping, welding, grinding and turning.

Through accommodating these facilities, Kingston Engineering further expanded their factory premises. Their product range advanced notably within this era too, leading to a vast range of screws, sprockets, chains, pumps and bearings; there was also an expansion for their sprayed coating services where Kingston Engineering now offers the service for worn components. In terms of their exporting, Kingston Engineering saw further developments within this span of 20 years and had now begun exporting across Europe. In 1979, the company celebrated its milestone of 60 years and was being run by two direct descendants of the two founding families.

The introduction of the digital years throughout the eighties, saw the rise of new advancements within engineering industries. Digital technology further increased Kingston Engineering’s already established skills and gave them the perfect tool in broadening their production skillset.

Moving onto recent years, Kingston Engineering has now established a dominating presence within the engineering sector. With more and more technological advancements being used within manufacturing, Kingston Engineering has developed significantly, in terms of modern machinery and in-house facilities.

Examining their amazing 100 year of production up to today, Kingston Engineering has built an extremely positive reputation which has allowed them to produce top of the range products. Though such a detailed rich history of skillful work behind them, Kingston Engineering has shown great flexibility, showcasing the adaptability of the company throughout the decades. Supported by their expert team and managed by working directors, their skills and experience, are at the heart of the company’s success.

With a great customer service focus, Kingston Engineering provides a quick, efficient service with help from their 40 plus skilled workforce. It is clear to see how Kingston Engineering has become one of UK’s leading specialist manufacturers and producers of bespoke Power Screws.

Maintaining the company’s successful 100 years, has never been more important to Kingston Engineering. Inspired to further themselves, they even have recent developments, including investment in a new Mituyo-Euro M544 Measuring Machine, which has become a significant tool for their inspection department.

The machine allows Kingston Engineering to measure the physical geometrical characteristics of an object. The machine creates printed inspection reports and is controlled by an operator, with measurements designed by a probe attached to the third moving axis of the machine. Proving to be a great example of Kingston Engineering’s commitment to constantly improving through investing, the machine benefits the company/clients significantly, especially through the machine producing an accurate drawing of the part that can be used for the manufacture of bespoke items.

Kingston Engineering’s current directors are Paul Bieblie, Mike Hutchinson and Gill Hickson, who are leading the company to achieve and maintain its established, excellence and professionalism within all aspects of their business. Through their unrivalled skills and years of experience, they are clearly setting the way for Kingston Engineering and helping the company deliver its exceptional services to their customers.

A privately owned business, this prestigious 100 year milestone is a testimony to the company’s sheer determination to invest through their skilled team of workers, facilities and technologies. It is clear to see that over the years, the company have significantly invested in their machinery for continued success. The company’s current directors have an unprecedented, more than 100 years of experience between them and are continuously engaging in plans to help the company become global leaders in screw manufacturing.

Congratulations Kingston Engineering, on achieving your 100 year anniversary and clearly setting the way for a further successful future.

T: 01482 325676
www.kingston-engineering.co.uk
The UK’s leading travel and tourism show

The Travel and Tourism Show was a raving success at the Birmingham NEC in 2019 and exceeded all expectations with more than 2,800 visitors in attendance.

The Travel and Tourism Show is a great platform for a multitude of different companies, providing valuable information from its all-encompassing wide selection of exhibitors such as: entertainers, leading hotels, tour operators, groups travel organisers, venues, activity organisers, travel agents and transport providers.

Providing visitors with a plethora of travel options and expert advice, the exhibitors at the Travel and Tourism Show deliver information on the best attractions and destinations world-wide. The show provides a valued networking experience for visitors and exhibitors and shares in-depth knowledge from some of the most influential keynote speakers, within the Travel and Tourism industry.

With more exhibitors than any other UK travel show and attracting over 270 exhibitors this year, the Travel and Tourism Show provided its visitors with a hub of knowledge and choices in terms of travel options.

The Travel and Tourism Show will be back at the Birmingham NEC from the 25th to the 26th of March 2020. This is our pick of the best exhibitors from this year’s show, listed in alphabetical order:

**Churnet Valley Railway**
- Practically a childhood dream come true; a great platform for all; Churnet Valley Railway offers a selection of different dining experiences on board including cream tea, four course meals and lunches on board.
- Churnet Valley Railway offers a range of experiences, such as driving courses that include regulator driving and top line driving experiences.
- They also offer a locomotive course stretching across 11 miles that enables customers to watch the crew drive and fire the locomotive!
- For any more information or to find out about upcoming experience days, please see the details featured below.
- **Contact**
  - T: 01538 750755
  - www.churnetvalleyrailway.co.uk

**Floating Grace Ltd Albert Dock Liverpool**
- Floating Grace's combination of food, drink and high spirits is nothing short of perfection. As Liverpool’s only floating bar and restaurant, Floating Grace offers a relaxing blend of tantalising menus and city views to Liverpool and its visitors. Hosting Sunday roast cruises, three course dinner sunset cruises, afternoon tea historical guided cruises and catering for private and business events, Floating Grace has something for everyone.
- Cruising coolly through all eight of Liverpool’s docks, and giving those on board the chance to see the historic city from a uniquely placed perspective, the restaurant is ideal for those looking to kill an afternoon in style and grace.
- The menus served on board are hearty, while maintaining an element of class, ranging from traditional roast dinners to a choice of two starters, three main courses and two desserts, blue stilton cheese stuffed chicken or lamb shank with mint sauce or salmon with hollandaise sauce. The three course evening dinner cruise, costing a reasonable £35 per person, lasts for two hours. Upon arrival passengers will be offered a glass of bubbly to cleanse the pallet before digging into a three course dinner and making use of the on-board bar.
- For private events, Floating Grace can cater for up to 50 guests while saving room for full audio and visual equipment, and the boat allows for private guests to decorate and customise the boat in whichever attire they may choose. For more information on Floating Grace, see details below.
- **Contact**
  - M: 07540 373838
  - Bookings@floatinggrace.co.uk
  - www.floatinggrace.co.uk

**Providence Hospitality**
- Providence Hospitality is a niche hospitality Management Company based in South Africa and the United Kingdom. Providence Hospitality focuses on bringing modern day technology and sound financial principles to Hotels and Lodges whilst nurturing old world charm.
- Providence Hospitality specialise in reinvigorating established businesses, launching new ventures or just nurturing successful properties in order to adapt and capitalise on the continuously changing hospitality sector.
- Providence Hospitality UK feature a choice of unique AA graded 3 and 4 star Hotels. Our current portfolio includes The Headland Hotel, The Palace Hotel and The Queens Hotel located in the beautiful English Riviera, Devon, a stunning county of great contrasts. The Old Quay House in the picturesque harbour village of Fowey in Cornwall; The Rosevine, a boutique-apart-hotel located on the Roseland Peninsula, an area of outstanding natural beauty on the South Coast of Cornwall; The Northfield, a classic coastal Hotel in Minehead, a beautiful seaside town nestled in the stunning Somerset countryside; The Borrowdale Gates Hotel, a luxury 4 star hotel set in the tranquil, stunning scenery of the Borrowdale Valley in Cumbria and The Grange Hotel, a 4 star hotel that enjoys an unrivalled position in the pretty coastal town of Grange-over-Sands, Cumbria with breathtakingly panoramic views of the bay.
- Over the next two years Providence Hospitality UK is adding to its portfolio in many beautiful locations across the UK.
- **Contact**
  - www.providencehospitality.co.uk

**Storyteller**
- Storyteller is a UK based company who make unique travel accessories which help fund educational programmes around the world. 10% of each purchase goes directly towards supporting less privileged individuals around the world obtain access to quality education.
- They work closely with global and local charities, and have supported projects in the UK, Nepal, India, Tanzania and Laos.
- The award-winning and flagship product is flagmate. Handcrafted in their hometown of Birmingham (UK), flagmate is a travel keepsake made from faux leather, which helps travellers to capture their travel memories by attaching hand-painted flags of each country they have visited.
- Each flag has the added option to engrave a special memory or date to the back of each flag.
- **Contact**
  - hello@storytellertravel.co.uk
  - www.storytellertravel.co.uk

**The Museum of Timekeeping**
- The Museum of Timekeeping is the UK’s leading museum for the history of timekeeping. Located in the heart of historic Forbury Gardens, the museum is housed in the Grade 1 listed 155 year old Bulmershe House.
- The museum is home to over 2000 items and the history behind them.
- The displays include: 1000 years of timekeeping, the 17th century quarter strike clock; British TIMEKEEPING; Town Clocks; and the Seventh Day Adventist Church was one of the first to perceive the need for a timekeeping system.
- **Contact**
  - T: 01636 817001 or email: info@museumoftimekeeping.org.uk

Scence makes natural and effective skincare beautifully presented in eco-friendly, 100% paper packaging using cruelty free, vegan friendly and organic ingredients. Scence encourages and offers a natural way for us to nourish and cherish our skin without compromising to the environment.

A range of face, hand and body moisturisers, deodorants and lip balms are offered in seven different aroma profiles using essential oils. With just a few carefully chosen effective ingredients, Scence brings excellence that is cruelty free, vegan friendly and has organic ingredients.

Care for your skin. Care for your world.
M 07432 873535
care@scence.co.uk
www.scence.co.uk

Maryvery after the NOPE exhibition

Maryvery has been established as a cosmetics company in UK back in 2016. Our traditional business model is based on bringing the market new luxury cosmetic brands which reflect the health, beauty, and diversity of those who use it.

We currently have two brands, which are both made in the UK, they contain 95% natural ingredients and they are suitable for regular usage.

COFGO – which stands for ‘Create your own formula’ allows men and women to choose the right products for their type of hair and skin. This product line contains a range of shampoo, conditioner, shower gel and creams to suit different needs.

GORKI on the other hand, is a skincare line for babies. The GORKI brand presents a full range of products (cleansing, nutrition, moisturising and protection) for the care of children’s healthy skin. The products are designed considering the structure of the baby skin, including the skin of new-borns. The goods are recommended from birth and are suitable for frequent use; do not contain alcohol, parabens, phthalates or ethereal oils.

At Maryvery we consistently work on bringing you the best cosmetics!
Contact
M +44 (0)7944 126126
maryvery1765@gmail.com
www.cosfo.co.uk
www.gorki.org.uk

INIKI Organic

Make the Switch to Clean Beauty

Face
Smooother foundation for one enriched in nourishing ingredients that will work to improve skin, whilst giving you the daily coverage you need. Look for a BB Cream or Foundation with Hyaluronic Acid to hydrate and plump the skin with Certified Organic ingredients such as Argan OIl, Jojoba Seed Oil and Avocado oil to nourish. Try INIKA Organic Certified Organic BB Cream.

Lips
We all love that elevated feeling that comes from picking the perfect shade of lipstick that complements your skintone. We apply and re-apply multiple times during the day without thinking about the chemical content of our lipstick and how much of it that we are incrementally ingesting. It’s important to pick a 100% non-toxic formula made with plant-based ingredients to minimise your chemical exposure, whilst maintaining your signature style. Try INIKA Organic Certified Organic Vegan Lipstick.

Eyes
Lashes make a huge difference to the femininity and expression of the eyes. To get naturally longer lashes, try wearing a daily mascara that is infused with ingredients that will nourish the lash roots and encourage new growth, while being gentle on even the most sensitive eyes.
Ingredients to look for include Magnolia Bark extract, Vitamin E and Sunflower Oil. Try INIKA Bold Lash Vegan Mascara.

Hownd

We are passionate about innovating natural, ethical and effective products for dogs.
Our HEMP WELLNESS TREATS are 100% natural, hypoallergenic, gluten free, grain free, human grade and vegetarian. Hemp is a complete source of protein and super rich in healthy fats omega 3, 6 & 9 – vital for optimal health of the skin. Hemp is also a medicinal versatile plant and is renowned for providing a fortune of natural health benefits.

As well as hemp, these tasty veggie snacks include minerals known to tackle common health issues in dogs, from puppies to golden oldies. All ingredients are sourced in the UK and produced in Devon.

Our HEMP WELLNESS TREATS are available in trade packs of 10 units or save 15% and buy our starter kit which includes a 10 pack of all varieties (50 units in total) plus a fully branded display unit. RRP £4.50.

T +44 (0)20 3004 5255
trade@dogslovehownd.com
www.DogsLoveHownd.com

Bragg Organic Apple Cider Vinegar – a daily health tonic

Bragg apple cider vinegar has been a staple of health food stores for decades. While our zesty vinegar makes a great cooking ingredient, did you know that its most popular use is as a daily health tonic?

Bragg fans use it daily to aid digestion and energy levels, to promote weight loss and for general wellbeing. They do so by ingesting 1 tablespoon diluted in water, mostly first thing in the morning.

Bragg Organic Apple Cider Vinegar is made by fermenting organic apples twice, and the resulting liquid is kept raw and unfiltered to preserve “the Mother”, a blend of naturally-occurring enzymes and good bacteria. It makes a delicious and tangy addition to most recipes, in particular salad dressings. Loaded for its unique tangy and fresh flavour, once you taste it you will not want to try any other. It is even available in a heavenly “sweet and sour” organic honey blend.

And for those of you who are constantly on the go (and who isn’t just grab a pre-diluted Bragg Apple Cider Vinegar drink (with 2 tablespoons of ACV in each bottle):
these are fruity, refreshing, low in calories, with no added sugar, and come in 4 delicious flavours.
T 020 8205 3388
orders@omnivita.co.uk
www.bragguk.co.uk

Hownd

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orders@omnivita.co.uk
www.bragguk.co.uk
Catching up with Flawless CBD

We started a Vape distribution company four years ago and through hard work and dedication, we have grown to become one of the largest distributors in the UK, supplying over 4,500 stores. We saw the potential CBD had a year ago when selling some of our partner brands, so decided to set up Flawless CBD last September and concentrate on becoming the leading distributor for CBD products.

Not only did we want to bring some transparency into the market, we also wanted to partner with the best brands from all over the world and bring them to the UK. We like to think that our hard work, research and due diligence into the companies and brands we represent has paid off, however there is still a long way to go. We want to set up organisations and committees, to help people learn and understand more about CBD and raise the awareness of how CBD can help our customers.

We want to work with the best brands out there, scientists, research teams and government bodies, to make sure everything is done correctly. We are in the process of helping set up the UK division of ACTIVE – (Association for Cannabinoids, Terpenes, and Innovative Ventures in Europe) to bring together the leading players, brands, research scientists, legal teams and more. We have a few shows lined up this year in London (Natural Products) Berlin, Stuttgart, Miami, Paris, Madrid, the CBD & Hemp show again in September and a few more to be confirmed.

We have some new products we are very excited to be launching in the next few weeks. Somnio CBD are launching CBD edibles including Tea bags, chocolates and coffee beans and increasing the very popular skincare range Harmony: Anti age! Anti wrinkle serum, Eye serum for dark circles and puffy eyes, and an Acne Serum, Harmony launching their new product line using hemp the new e-liquid line, CBD FX with the new disposable terpenes and their new skincare products. It’s all very very exciting!

We are a distributor of CBD products so we look to partner up with the best brands, those that have all the correct protocols and procedures in place with all the necessary accreditations and lab reports and analysis. These companies that we look to work with pride themselves on sustainable farming practices and non GMO and products which are 100% natural. We want to try and ensure Flawless CBD is the leading distributor in the CBD world. We pride ourselves on being a company that’s built on the right values and morals and want to educate the customers into buying the right products necessary for them.

We saw a growing trend from the US and the partner brands we worked with over there. We trialled the products that are beneficial and right for them first, selling CBD FX vape liquids last January, then looked to slowly increase the range and then partnered up with some more brands. We saw the positive and health benefits it was then having on people in the UK and decided to set up a separate division to concentrate on CBD products only and all types not just Cbd Vape.

T: 0116 234 4820
irin@flawlesscbd.co.uk
www.flawlesscbd.co.uk

Neubria

Neubria wowed the crowds at this year’s Natural & Organic Products Europe event with their beautifully presented range of brain health supplements. Neubria’s innovative formulations are based on a blend of unique botanical ingredients, each tailored to support the different needs of the brain, offering products for focus, energy, sleep, mood and memory. Supported by a scientific advisory board consisting of doctors and industry experts, Neubria products are available online and in a number of high profile stockists, including Harrods, Selfridges, Revital and John Bell & Croyden, alongside numerous independent health stores across the UK.

The company was founded in March last year by former professional rugby player, Jonny Kennedy, whose interest in brain health developed after he was forced to retire from the game due to recurrent concussion. With a US launch in 1,000 GNC stores set for September, the brand is due to grow from strength to strength over the coming months, cementing its reputation as a market leader within the growing area of brain health supplementation.

www.neubria.com

Urban Veda

Urban Veda is a multi award winning skincare brand, inspired by the ancient Indian, holistic principles of Ayurveda. The four ranges (Purifying, Radiance, Soothing and Reviving) are naturally formulated to protect skin from the damaging effects of free radicals. Each product is made with clinically proven actives and Ayurvedic botanics to help maintain skin’s natural balance.

Belief in the value of nature means valuing plants as nature intended – all products are free from genetically modified (GM) ingredients, mineral oil, artificial colours and parabens. All products are also certified as both cruelty free and vegan friendly.

The Urban Veda ranges are designed to suit different skin types, which in the principles of Ayurveda are associated with ‘dosha’ types. This is the Ayurvedic term to describe the physical and emotional tendencies of the mind and body. The Purifying range is best suited to Kapha types, the Radiance range is best suited to Vata types, the Soothing range is best suited to Pitta types, and the Reviving range is best suited to mature skin and all three doshas.

info@urbanveda.com
www.urbanveda.com

Amazing Herbs

Established over three decades ago, Amazing Herbs is the ‘original’ manufacturer of Black (Cumin) Seed Health and Nutritional supplements in the world. Our Premium Cold-Pressed Black Seed Oil is manufactured in our facilities in Buford, GA, using the highest quality, non-gmo, organically-grown, pesticide-free and non—irradiated Nigella Sativa seeds sourced directly from farms in Turkey and Egypt. Our Black Seed oil is the number one black seed oil seller in the US.

For centuries, the black seed (nigella sativa) herb and oil have been used by millions of people in Asia, Middle East, and Europe to promote health and well-being. Also known as “black cumin,” it has been widely studied for its broad range of health benefits and immune system supporting properties.

T: 020 8049 8338
fatima@amazingherbs.com

Basix skin defence cream

The Super Charged Moisturiser With 11 active ingredients Delivers Results. Made in South Africa and bottled in the UK, this all natural cream contains XIGEBA AFRICANA - The Fruit of the African Sausage Tree.

This incredible ingredient contains natural plant sterols which make it particularly effective on dry flaky skin. Also suitable for people who may be prone to eczema, psoriasis, dermatitis, rosacea, acne & spots.

Other powerful ingredients include Kakadu Plum, Lemon, Ginger, Aloe Vera, Rose Oil, Rosemary, Rooibos, Coconut, Green Tea, Redックス Tea and Vitamin E which combined, tackle inflammation, soothes itchy skin, strengthens and repair skin cells, kills bacteria that flourish in areas of intense scratching, closes open pores, helps heal dead skin cells, stimulates collagen production and provides anti-oxidant and anti-aging properties to fight free radicals and reverse the appearance of ageing.

With 7 natural moisturising oils the skin feels silky smooth after application with incredible results.

12 year successful sales history, now available in UK and Europe. Looking for Distributors, Wholesale & Retail Outlets to stock this product. Attractive margins plus marketing plan to help drive sales and ensure commercial success for all of our partners.

T: +44 (0)203 971 911
sales@lombardsmiths.com
www.lombardsmiths.com
Vitality CBD

This year’s Natural & Organic show acted as the introduction of Vitality CBD to a wider audience outside of the hemp industry. The strong response that both of our stands received emphasised that our extensive time in research and development had resulted in the superior standard of CBD oils we’d been striving for.

Vitality CBD is a premium CBD oil company which applies cutting edge horticultural techniques to the cultivation and harvesting of CBD. Using organically grown hemp from some of the most well-established farms in the world, we feel confident in saying that we produce the highest quality CBD in the UK.

At Vitality CBD we’re always finding new solutions to everyday problems by harnessing the well-known properties of the hemp plant. CBD, or cannabidiol, is a substance extracted from hemp that research has proven supports the body’s naturally produced endocannabinoids in promoting homeostasis.

Our product range has been curated to cater to the full span of potential CBD users, covering vape juices, oral drops & sprays and cosmetics. Importantly, our oils don’t just contain CBD—we also retain a majority of the hemp plant’s helpful cannabinoids, terpenes and flavonoids.

www.vitalitycbd.co.uk

GinSen

GinSen is one of the leading providers of herbal supplements based on the ancient principles of Traditional Chinese Medicine. GinSen products have been used in GinSen’s London clinics for the last 20 years and following our success in the clinic and high demand for our products; we are delighted to make our highly effective natural food supplements available for everyone.

Our natural products specialize in infertility, weight loss, hormone imbalance, stress and anxiety, boosting energy, skin disorders, wellbeing and much more. GinSen’s products aim to treat the root cause of your problem and not just the symptoms. We understand that everyone’s needs and body is different and not every may be aware of the basis of Traditional Chinese medicine which is why we also offer FREE consultation, if you are unsure which products are best suited for you simply get in touch!

All of GinSen’s food supplements are made from 100% natural ingredients and are suitable for vegetarians, vegans, gluten free, dairy, soya free, free from genetically modified products. Our herbal ingredients are tested and certified for stability, COA and GNP standard with the highest concentration ratio of 7:1 making them one of the most highly effective yet natural food supplements.

Contact
Lily Li Hua
info@ginsen-london.com
www.tcmblog.co.uk
www.ginsen-london.com/
natural-products-ginsen/

Celebrating 30 years of Natracare

Natracare – the industry leader in natural and organic feminine hygiene products – has been empowering women to make the right choices for their bodies and the planet for 30 years. As the inventors of the world’s first 100% organic tampon, Natracare has been at the forefront of innovation in the feminine hygiene industry.

Susie Hewson founded Natracare in 1989 when the dangers of dioxin pollution and the damaging impact of plastic waste were not yet widely known. As a direct response to the chemical-laden and plastic-filled period products on the market, Susie made it her mission to research the best raw materials and provide women with viable alternatives to conventional period products. Today, Natracare’s range spans 31 organic, natural and plastic-free products that are sold in more than 70 countries across the world.

Natracare is a brand that is trusted by women around the world, and with good reason - Natracare is ethical and sustainable, right down to its (absorbent) core. Natracare’s success is testament to the power of doing good – and how, when consumers are presented with an option that is better for people and the planet, they will choose it!

T +44 (0)1454 613347
info@natracare.com
www.natracare.com

ORGANii

ORGANii Everyday Organics are dedicated to offering customers products which are produced with natural and organic ingredients. The effective yet affordable formulas are suitable for the whole family to use day in and day out. Their large product portfolio includes a 100% mineral SPF range which does not contain Oxybenzone or Octinoxate ensuring they are suitable for even the most sensitive and fair skin and prevents prickly heat. All SPF15, SPF20, SPF30 and SPF50 instantly reflect both UVA and UVB rays, the non-nano formula is free from silicone, paraffin and mineral oils.

Their brand new dermatologically tested Foam Bath and Shampoo, Protective Nappy Cream, Nourishing Baby Cream and Fresh Scented Water are suitable for all young babies and children. They also offer nourishing shower gels, cream bar soaps, intensive oils for allergy prone skin and organic cotton patches for those who suffer from reactions to conventional plasters.

Contact
T 01557 870203
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www.facebook.com/organиеverydayorganics
www.instagram.com/organieverydayorganics
www.twitter.com/ORGANiiUK

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Their brand new dermatologically tested Parent and Child range includes a Fresh Foam Bath and Shampoo, Protective Nappy Cream, Nourishing Baby Cream and Fresh Scented Water suitable for all young babies and children. They also offer nourishing shower gels, cream bar soaps, intensive oils for allergy prone skin and organic cotton patches for those who suffer from reactions to conventional plasters.

Contact
T 01557 870203
marketing@organii.co.uk
www.organii.co.uk
www.facebook.com/organиеverydayorganics
www.instagram.com/organieverydayorganics
www.twitter.com/ORGANiiUK
Electric chain hoist stops instantly

LIFTKET has developed the first electronically controlled chain hoist with quick stop function. The Star VFD stops without ramp-down immediately after the control button is released. Therefore, loads can be lifted or lowered to the desired level in one go. No longer is there a need for time-consuming stop-and-go, which today still is a common way to position loads with increased precision.

The new series comprises hoists for loads from 12.5 to 2,000kg. With nominal speeds up to 36m/min depending on the load, these chain hoists are much faster than comparable products on the market. Moving with no load, they can even be operated with up to 200% of the nominal speed. This also saves a lot of time in everyday operation, since typically half of all runs are empty runs.

And even apart from that, hoists are mostly operated with partial load.

The speed of a Star VFD can be increased accordingly when the nominal speed is not fully utilized. This standard series provides customers with cost-efficient, fast hoists for heavy use and large-volume applications. The variable-frequency drive is suitable for a worldwide use. All hoist components are manufactured and fully tested at LIFTKET’s German headquarters.

Contact
T 0342 58924 0
sales@liftket.de
www.liftket.de

Free site visit and quotation for energy efficient facility cooling

Proven and progressive cooling solutions provide 90% cost savings.

Some of the largest manufacturers and retailers in the UK are installing EcoCooling evaporative cooling systems into their stores, warehouses and logistics centres across the UK to combat rising temperatures. Reacting to a record-breaking hot summer they are preparing their facilities to provide the most comfortable and cool environments for staff and shoppers while also being cost effective and green.

UK based EcoCooling’s systems incorporate evaporative cooling and ventilation technology, eliminating the need for refrigerants, while also guaranteeing temperatures below 23°C all year round in the UK.

The equipment is around 60% of the capital cost of refrigeration while only 10% of the operational cost, making it one of the most cost-effective ways to cool large spaces.

GD Outdoors, TK Maxx, Not-a-Porter, Cummins, Siemens and many more are benefiting from the effects of evaporative cooling, improving productivity and comfort for their staff.

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3D Printing cuts end-of-arm tooling costs

If you thought 3D printing, or additive manufacturing, was only suitable for prototyping or short-run production then maybe it’s time to think again, as MEPCA found out from 3DPRINTUK Director, Nick Allen.

End of arm tooling (EOAT) is about as bespoke as you get it in a production facility. But tooling can be expensive, even if you have the facilities in house to do so. So could they be made cheaper with additive manufacturing (AM) and in particular selective laser sintering (SLS)? If so, will the material stand up to the task? And even if you have your own in-house CNC facility could it be better to outsource the job to a 3D printing bureau?

In many cases, the answer to all these questions is yes, and there are many reasons why AM is a viable option when it comes to EOAT.

The first area is cost. The cost to produce end of arm parts can be surprisingly low, and at 3DPRINTUK we have created them on behalf of clients for as little as £25 vat. Yes, they can range up to around £10,000 for much larger and more complex items, however the majority of parts that we produce sit in the sub £100 area. The competitiveness of the method is demonstrated by the fact that a number of our customers have in-house equipment to manufacture parts, yet still choose to outsource to us. Of course, strength is another consideration. While not being as strong as a part CNC’d from aluminium, SLS nylon does display some decent strength. With a tensile strength of 48MPa, it is suitable for a large number of applications in low and medium harshness environments.

It’s when you look at the design freedom the AM method offers when things get a little more interesting. Restrictions on the more traditional methods of manufacture mean that the ideal design for an application may not be achievable in one part, and often, may not be possible at all. With SLS, you have far fewer limitations, allowing for greater freedom of design.

These design aspects include:

- Multi-part in one – previously, complex designs would have to be made up from multiple parts which were then assembled to make a finished piece. By using SLS, you can more often than not, manufacture the part in one.
- Internal geometry – the geometry needed to hold items in place such as wires, sensors, mechanical parts etc., can all be designed internally without issue – you only need to make sure that you can get the parts in there once the item is printed.
- Weight saving – a lighter weight ‘end’ can reduce strain on a robotic arm and increase the longevity of the device.
- Pneumatic and hydraulic channels – these can also be incorporated into the print rather than needing external and additional piping. This is particularly useful for pneumatic picking systems that use a vacuum to sort parts. Hydraulic channels will need to be vacuum impregnated to make them completely watertight.

An excellent example of the benefits AM offers is Brushtec. The world-class manufacturer and designer of innovative brushware use our SLS prints to produce precise, robust jigs and high quality machine parts for their brush production systems. Brushtec uses SLS over machined aluminium because it can design complex SLS parts and not be restricted by the limitation of standard machining.

Plus the cost of SLS printing its EOAT is considerably cheaper than machining aluminium in-house once it factors in the raw material purchase and delivery, machining centre setup, machining centre programming, purchase of milling cutters, overheads, and wages.

Contact
www.3dprint-uk.co.uk
Poor knowledge equals risk to your business

Poorly specified cooling technology can result in erratic climate control, increased operating expenditure, and costly disruption to IT operation. With emerging trends including 5G, IoT, automated vehicles and digitisation in the industrial sector, there will be a dramatic increase in remote edge data centres and small, localised server rooms – reliability will be crucial.

A lack of awareness of the differences between comfort cooling and precision cooling is impacting the reliability of IT infrastructure, resulting in serious consequences for businesses.

Around half of businesses currently install comfort cooling in small server rooms instead of the correct precision cooling. This is a common mistake; there is a need for education on the importance of precision cooling in delivering resilient IT operations.

Comfort cooling units are designed for cooling people in offices and retail environments. This type of cooling technology is intended to operate for short periods of time (of around five hours per day, five days per week) and its typical life expectancy is around five years. Precision cooling, however, is designed for use in technical environments and the typical life span is 10-15 years.

Comfort cooling units as part of their design are designed to cater for ‘latent heat’. Environments that are populated by people (as opposed to technical equipment) produce this type of heat, which contains moisture, while technical spaces (such as server rooms) radiate pure heat – referred to in the industry as ‘sensible heat’.

A comfort cooling unit will have a typical ‘sensible heating ratio’ of 0.5-0.6, while a precision unit will have a sensible heat ratio of 1.

Comfort cooling units, which are designed to remove the moisture produced in retail and office spaces, can use up to 50% of their energy for dehumidification. This is an important difference – precision air conditioning systems produce this type of heat, which contains moisture, while technical spaces (such as server rooms) radiate pure heat – referred to in the industry as ‘sensible heat’.

A comfort cooling unit will have a typical ‘sensible heating ratio’ of 0.5-0.6, while a precision unit will have a sensible heat ratio of 1.

Comfort cooling units, which are designed to remove the moisture produced in retail and office spaces, can use up to 50% of their energy for dehumidification. This is an important difference – precision air conditioning units consist more than 95% of the energy used exclusively into cooling capacity. Therefore, the technology required to achieve this pays off quickly in terms of lower operating costs.

A comfort cooling unit rated at 10kW, with a sensible heat ratio of 0.5, will only deliver 5kW of sensible cooling. A precision cooling unit, with a heat ratio of 1, on the other hand, will deliver the full 10kW. This means you may need to specify two comfort cooling units to deliver the same capacity as one precision cooling unit.

Unlike comfort air conditioning units, precision units feature strictly controlled and accurate dehumidification (tolerance ±5% relative humidity), as too much humidity can lead to condensation and corrosion, while too little can cause static charges, data loss and damage to hardware.

Precision cooling units with EC fan technology can also offer further savings in running costs.

It is a ‘false economy’ to prioritise capital outlay when specifying air-conditioning units: if you install a solution that isn’t appropriate for the technical environment, you will have issues. Effectiveness must be the primary consideration, along with long-term operating costs. Furthermore, comfort cooling systems also perform ‘oil return cycles’, which override the set temperature controls and can lead to intermittent falls in temperature.

While this is less of a problem in server rooms, this can present issues in environments such as laboratories, where precise temperatures are critical to the integrity of the testing process. Precision cooling units do not need this operating feature and therefore present no operational risk in this way.

Other important differences include that for comfort cooling applications, it is less important for the filter to be highly effective in removing small particles; dust circulation has no detrimental effect in a non-technical environment.

In server rooms and technical spaces, it is crucial to prevent particles being blown or sucked into technical equipment, as this can shorten the lifespan of IT assets.

Ultimately, rooms subject to high thermal loads need constant climatic conditions in order to work reliably.

Precision cooling technology is specifically designed for server rooms and technical environments where reliable thermal optimisation and high availability are crucial business imperatives.

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