



INDUSTRIAL SOLUTIONS UK

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SUPPLYING A COMPLETE RANGE OF MAGNETIC SOLUTIONS

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Including BUILDING UPDATE

Featuring a wide variety of companies from across the UK and Europe, from Builders to Landscaping.

Editors Comments

Hello & welcome to issue 657 of Industrial Solutions UK!

The team at Industrial Solutions UK has been working extremely hard to bring you an issue that is full of innovative and exhilarating companies and we are very excited to share their success and achievements with you.

We have searched the length and breadth of the UK to bring you some of the most ground-breaking innovations and this month we are overjoyed to be highlighting the activities of UNISIG and Service Sealing Solutions.

Firstly, we would like to focus on the accomplishments UNISIG who this month features on pages 4-5!

Secondly, we are featuring Service Sealing Solutions with the 'Sealing Solutions' profile following their impressive performance over the years. For more information, turn to page 8.

I hope you enjoy reading this issue of Industrial Solutions as much as we have enjoyed bringing it to you. Happy reading and we hope to see you for the next edition!

Ian Hayward
Editor
INDUSTRIAL SOLUTIONS UK

For all advertising & sales enquiries,
please contact Ian Hayward
0121 241 8788



Fasteners & Fixings

Experts in Stainless Steel fasteners

Precision Technology Supplies (PTS) was established in February 1988. Based in East Grinstead, West Sussex, PTS is a stockist and distributor of Stainless Steel fasteners in both A2 & A4 materials. Offering the widest range of Metric and Unified threaded products available. Quality products with fast delivery times and efficient customer service.



With over 30 years of experience in supplying a growing number of customers, PTS can be counted on to offer delivery to their customers in 90 countries across the world. Within the UK, PTS provide numerous variations of Direct Line Feed management to suit individual needs.

PTS are regular exhibitors at the bi-annual Fastener Fair in Stuttgart, which was unfortunately postponed this year. If you would like to find out more information on their full range of products and services, head to their website or use the contact details below.

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Corporate Days Out

Event hosting with Rutland Farm Park

Rutland Farm Park is a small family owned, 18-acre working farm based in the quiet and peaceful market town of Oakham, the county town of Rutland which is renowned as England's smallest county. Offering visitors a glimpse into its rich history, with original Victorian farm yard and buildings.

The park is home to various farm animals including, animals like Mr Tom the Shire Horse and Highland and Hereford Cows. In fact, the park is home to many varieties of animals, these include: sheep, guinea pigs, goats, pygmy goats, pigs, rabbits, cows, ponies, chickens, geese, alpacas and many more.

Fun for everyone, the Park offers full year round access, with ample amounts of fun, family activities to enjoy. Whether it's a tea and cake at its onsite tearoom, meeting its farm animals or exploring the parks' tracks; Rutland Farm Park is your friendly host for a wonderful day out.

The park also hosts many events throughout the year and is currently promoting its Jubilee Red, White and Blue Celebration which it is running from the 30th May – 5th June 2022.



"Visitors can wear red, white and blue for our Jubilee celebration and take part in our quiz, or enjoy one of our red, white and blue homemade cakes. The park will be decorated with red, white and blue and lots of Union Jacks," said Julie.

Another development for the park, is the launch of its deli fridge, offering a broad selection of local produce and environmentally sustainable produce to purchase. Consisting of produce including: artisan cheese, meat and sweet treats, Rutland Farm Park has a selection of delicious products on offer.

"We have locally sourced produce from Grasmere Farm, including: pork pies, scotch eggs, pies, sausage rolls and a selection of sausages, including gluten free. We also have White Witch Cheese, a delicious, artisan cheese, and a selection of Rutland Chef produce including jams, honey, chutneys, nougat bars, chocolates, ice creams and salad dressings. We are also offering water in a box, which is UK water, in all recyclable packaging which is environmentally friendly. We offer Land Girls Ethical Coffee Nurtured By Women. The coffee is cultivated and nurtured by women, and helps to promote female growers and support their communities," added Julie.



With all this on offer, Rutland Farm Park is the perfect place to visit this summer and is a great way to support a small, traditional, family run farm. Julie added, "Come and see us! We've been told that we are the childhood farm you always imagined and not a manufactured plastic attraction. We are the typical farm you think of as a child, higgledy-piggledy, friendly with lots of animals roaming and fun to be had."

For more information, please see details below:
T 01572 722122
www.rutlandfarmpark.co.uk



Cashflow Solutions from Paul Michel Finance

Many companies at some stage find themselves in need of cash – for meeting monthly expenses, payroll, tax liabilities, or new opportunities. It can be a frustrating position, to be awaiting satisfaction of invoices for work already completed as bills pile up or opportunities slip away. Although Government-backed schemes have helped a vast number of companies weather the challenges of the past year, many others have been unable to access funding. Paul Michel Finance is a partner of Fife Capital England, providing short-term financing solutions to limited companies in need of cashflow.

The company offers three main funding strategies:

- 1. Elective Invoice Discounting:** Paul Michel Finance purchases invoices for work already completed, advancing up to 85% of the invoice value to its clients. When the invoice is satisfied after 30, 60 or 90 days, the company deducts costs and passes on the residual to its clients.
- 2. Short-term Business Loans:** Paul Michel Finance provides secured loans to businesses from 3–12 months, or negotiable thereafter.
- 3. Trade Finance:** Paul Michel Finance purchases supplies for its clients, secured against verified

purchase orders and the resultant invoices. Solutions can be tailored to clients' needs, incorporating some or all of these strategies. Clients are grateful for this flexibility. They are not tied in to long-term contracts, only using the company's services when they wish to. Nor is there the need to provide Paul with the whole book of invoices. Moreover, decisions can be made more quickly than many institutions, and this means access to funds much sooner. There is no typical client for Paul. Some have enjoyed healthy finances, but require flexibility



Paul Michel
FINANCE

and speed for occasional purchases. Others have struggled to secure finance from more traditional lenders. A number of his clients have sought to grow their business, and others just to refinance. Short-term finance offers flexibility, discretion and speed for companies in need of funds. As businesses begin the journey of economic recovery after the past year, they might do well to consider short-term funding secured against work already done.

M 07863 753111
www.pmichefinance.com

Machinery

The new AmbaFlex massflow spiral



AmbaFlex is proud to present our latest installation for the elevation of filled glass bottles at the Oettinger brewery in Mönchengladbach. This is the first of our new vertical mass-flow conveyor system. It is a stainless steel spiral conveyor, fitted the new single track design complete with the recently developed TPJ4 slot.

- Project specifics:**
- Transportation of 500ml glass bottles
 - Over 40,000 bottles-per-hour throughput
 - Full stainless steel with corrosion-resistant chain
 - A footprint of only 2,240mm
 - Single track
 - New TPJ 400mm wide slot

While our original SVM is optimised for heavy-duty loads, this new addition to our bottling and canning product line is essentially the lightweight candidate. It is a specially configured spiral elevator for light to regular duty applications.

Including a new and unique single track belt, it can quickly transport a wide variety of liquid containers while maintaining a smooth product journey throughout the machine. It effortlessly handles a wide variety of container types ranging from bottles and cans to jars and tins.

The new single-track design also comes with a new and improved slot, specifically designed for this job. The 400mm wide TPJ interlocking slots ensure a gapless surface and result in a minimum of product movement, keeping them in perfect condition.

This addition to our product range for the bottling and canning market further expands the possibilities for designing efficient and flexible filling lines. All of our machines are customisable with a comprehensive list of industry-relevant options and a small footprint, giving our customers exactly what they need.

Want to know more about our latest addition or other pre-defined machines for crates, cartons, small packs and tray packs? Don't hesitate to contact us through the website at www.AmbaFlex.com. Our specialists will be happy to help and answer any questions you might have.

AmbaFlex is the partner for customized material handling systems based on spiral conveying technology! Our unique SpiralVeyor is used in a wide range of markets and applications for vertical transportation, temporary storage and the accumulation of single goods and packed products.

We are an independent global company that has developed, produces and also maintains the SpiralVeyor system to ensure that our customers receive the most cost effective solutions available today.

AmbaFlex, elevating customers to greater heights!

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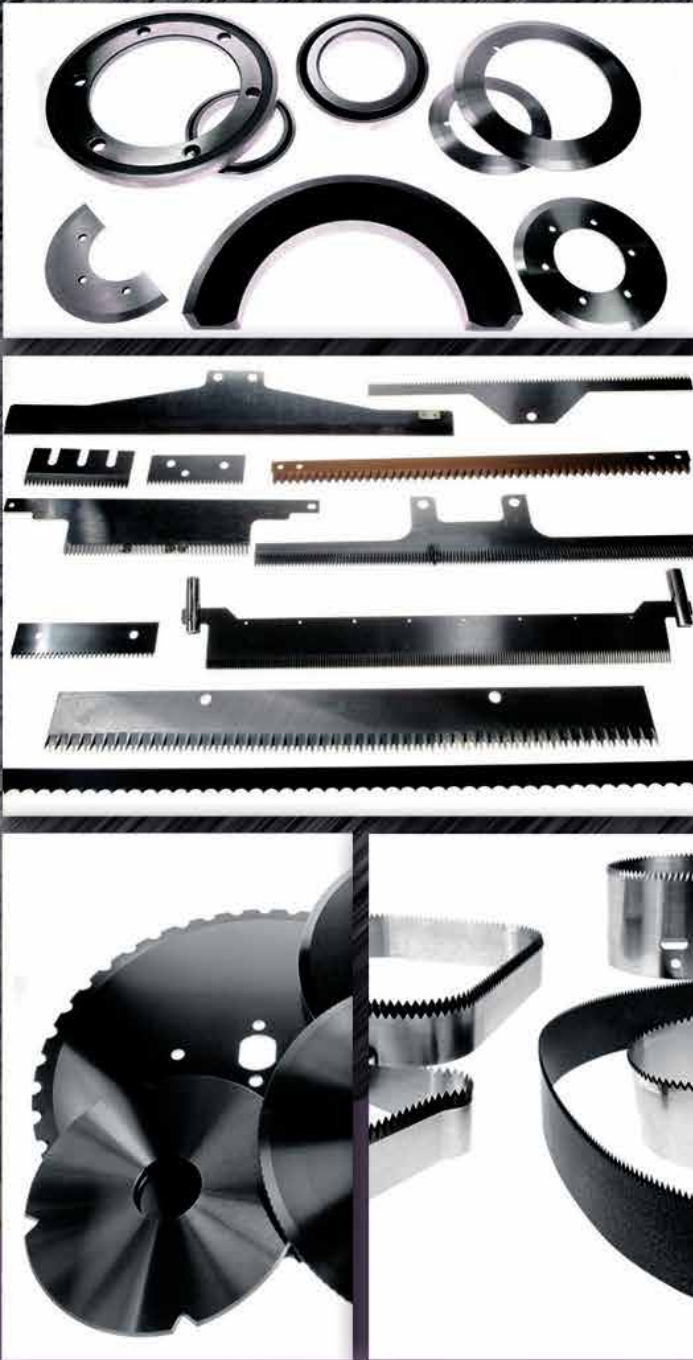
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Leading the way in deep hole drilling

At Industrial Solutions, we take pride in showcasing the very best services provided by companies that provide a wealth of benefits for their industry. As such, in this issue we are proud to announce that we have selected UNISIG as our Deep Hole Drilling Specialists of 2022 and the recipient of our Industry Specialist Award.

Originally founded to provide deep hole drilling machines, accessories and related services to the US market, UNISIG is one of the largest producers of deep hole drilling machines, and

applications, to accommodate any specific requirement.

Since its establishment, UNISIG has built up a trusted reputation amongst its broad range of customers. As the leading producer of gun drilling and deep hole drilling machines, customers of UNISIG rely on its deep hole drilling technologies for the powerful, intuitive capabilities they offer.

Serving industries such as aerospace, energy, firearms, hydraulic cylinders, medical, military and defense, molds, oil and gas, and automotive, UNISIG



has a strong presence all over the world with installations in the Americas, Europe and Asia.

By offering a complete deep hole drilling solution that includes machines, tools and automation, customers will receive the upmost, highest quality service from engineers that hold extensive experience and expertise on deep hole drilling machines. Throughout the years, UNISIG's impressive drilling capabilities have propelled the company to the forefront of the industry offering a service that goes completely unrivalled amongst competitors. Setting the standards of the industry high when it comes its technological

an industry leader in technology, innovation, support, and service. From small job shops looking to expand their capabilities, to large OEM's that need to drill millions of holes, UNISIG has the capabilities and the strong understanding of the deep hole drilling process, drilling tools and their



advancements, UNISIG doesn't just manufacture deep hole drilling machines, it can also develop machines for other deep hole processes such as BTA, gun drilling, counterboring/reaming, pull boring, trepanning, skiving and roller burnishing, bottle boring, bottom forming and many more.



Pushing the limits of BTA drilling, with on and off-centre capabilities that offer intuitive operation, UNISIG manufactures high power BTA drilling machines and trepanning that enable BTA drilling of 25mm to 500mm up to 20m deep.

The B-Series machines handle an impressive range of on-centre BTA drilling and are the ideal solution for a majority of BTA range diameter deep hole drilling applications. This series uses BTA and related tools to produce centreline holes on parts up to 20m deep and are supported with training from UNISIG throughout the process.

The larger swing B-Series machines have virtually limitless capabilities, giving manufacturers the most in power

and dimension requirements. As part of the deep hole drilling system, this range combines rigid deep hole drilling with durable components and powerful drives with smart controls, allowing manufacturers to get the most out of their deep hole drilling investment.

It is evident that UNISIG is at the top of its game, manufacturing some of the highest-quality machines in the deep hole drilling industry. With its team of dedicated experts all pulling together, the company is really showing how anything is possible when you work together to solve problems, not create them.

For more information, please see below:
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DEEP HOLE DRILLING SYSTEMS

Flooring Solutions

Abacus Flooring Solutions

Working in the Resin Flooring Industry since the early nineties has allowed myself to view the possibilities and see the many changes.

I have spent time with major manufactures and contractors, which is where I have gained invaluable experience. I have been the Industry Ambassador for Sustainability and Recycling since 2005, a role I enjoy as I have always believed we all have a role to play in looking after the world we live in.

I started Abacus Flooring Solutions to allow myself the flexibility in decisions, beliefs, and my future. I suppose whilst Abacus Flooring Solutions is a new business, I have simply continued as I have for the last 34 years. Although now I can support many charities each month, giving back thousands per annum to local cases.

It has also allowed me to focus on Recycling, Sustainability and Life Cycle Costs. I really do enjoy planning a specification, which can provide Life Cycle costs for a customer. Whilst making flooring systems, I could see we were using a lot of mined aggregates, possibly around 75-100 tonnes per annum.

This is where I could see we could change the way we worked and implement the most environmental change that the industry has seen.

I researched items that were currently sent to Landfill, and could we prevent this by having them processed sufficiently that they would work in flooring.

We carried out so many tests it seemed as if it would never happen. We carried out testing using numerous grades and types prior to finally receiving a fantastic result.

The test samples had provided all the results we needed and the flooring looked fantastic.

We continued to test prior to finally completing our first live project. The results were exactly what we expected. The installation guys said it was the best self-smoothing resin system they had used.

We finally had a recycling flooring system that we could use daily.

We researched further to find other uses for our recycled white plastic, this was into primer coats and into our repair compounds.

This was amazing as we could now use our 100% recycled white plastic materials in our primer coats, scratch coats, self-smoothing screeds, and repair compounds.

Quickly our recycled white plastics requirements were increasing daily.

We can see that the recycled white plastic can now be used in other flooring systems such as tile adhesive for example.

We had researched, designed and made a World First Recycled Flooring System.

Abacus Flooring Solutions had researched, designed, and launched the most sustainable flooring system that the resin flooring industry has ever seen.

We are always reaching new ways to handle our waste and currently have 5 different skips at our facility in Leicestershire. We recycle our plastic buckets, tins, cardboard, and general waste.

Abacus Flooring Solutions have been awarded two Industry awards in their first two years. Environmental Impact and the most improved company in its Industry.

Abacus Flooring Solutions Limited continue to grow carrying out a minimum of 4 different projects per week.

We have built up an impressive list of customers and now have a customer base that companies who have traded for many more years may have.

Working out of offices and warehousing in the heart of the Midlands, which allows the company to hold large quantities of stock. This gives a greater service opportunity to our customers who may require last minute projects.

We have invested heavily into multi-headed diamond grinders, we now have no less than 6 machines all supported by 3-motor vacuums to ensure we work as clean as possible on every site and care for the workforce.

Abacus Flooring Solutions continue to grow and have an estimated turnover of £1m in Year 3. This of course is only made possible with the incredible support of staff, customers, and our suppliers.

Working in all industries throughout the UK we do have strengths in Yorkshire and the Midlands.

We are proud members of FeRFA (The Federation of the Resin Flooring Association) I also sit on the Board of Directors of FeRFA allowing myself to help set and maintain the standards.

We are also active members of the East Midlands Chamber of Commerce; this allows ourselves to enjoy the business support they offer.

Safe Contractors and Chas are also additional support we use as full members.

As a business that starts its third year on 26th July 2022, we are incredibly excited about the future.

Expansion plans are scheduled, in fact our first plan is in September with other plans in place.

Abacus Flooring Solutions now have another business to join the group.

Abaplas Recycling Limited will handle all the plastic recycling and will start the sales of the recycled white plastics.

Abaplas Recycling Limited also have great plans with deals for recycling other plastic products on the cards.


We will be able to offer 2 solutions soon. Abacus Flooring Solutions will offer all flooring installations and Abaplas Recycling Limited will be responsible for all recycled white plastic sales.

Abacus Flooring Solutions can be contact either via phone on: 01530 432790/07904 396962 or via email: admin@abacusflooringsolutions.co.uk/nick@abacusflooringsolutions.co.uk



Our informative website is:
www.abacusflooringsolutions.co.uk

We look forward to receiving your enquires and with the 100% recycled white plastics, we look forward to discussing your needs in more details.




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Industrial Processing



RMIG Solutions

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RMIG is the world's largest manufacturer and supplier of perforated metal and its related products.

We know our customers' requirements for price and quality and meet their demands with uncompromising service.

Not only do we offer standard and bespoke perforated metal sheets, we are able to offer you a range of secondary operations as detailed below.

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We can cut and shape perforated sheet to meet the needs of your final application.

Levelling
For some applications a high degree of flatness is required, we have processes in place to ensure our perforated coils and sheets meet with your most demanding requirements.

Rolling and forming
We can roll, bend and form perforated sheets to match your design.

Aesthetic finishes and protective coating
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Direct Hoist takes you up in the world with top-class construction hoists for any commercial project. With a specialist team of hoist experts and time-served tradesmen, Direct Hoist offers cost-effective construction solutions and no-nonsense advice. Direct Hoist keeps your costs down and productivity high.

Direct Hoist's vast expertise is

equalled only by the firm's impeccable reputation for safety. Direct Hoist's long association with up-to-date German GEDA machinery has now been boosted by becoming the UK distributor of Electroelsa construction hoists and platforms – an Italian brand with market-leading features for worker protection.

Electroelsa's impressive range of mast-

climbing work platforms (MCWPs), transport platforms, material hoists and construction hoists adds to Direct Hoist's ever-expanding fleet of modern machines, which includes scaffold hoists, mast-climbers, gantry hoists and tile hoists. From 150kg hoists to 3,700kg transport platforms, Direct Hoist's fastidiously-maintained fleet is available for sale or hire throughout the UK.

Installation and dismantling is taken care of by a highly-qualified team – all SSSTS-certified, holding NVQ Level 2 Blue or Level 3 Gold CSCS cards.

For more information about Direct Hoists, visit: www.directhoist.co.uk, call: 01724 781647 or email: info@directhoist.co.uk.



Metal Improvements

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.

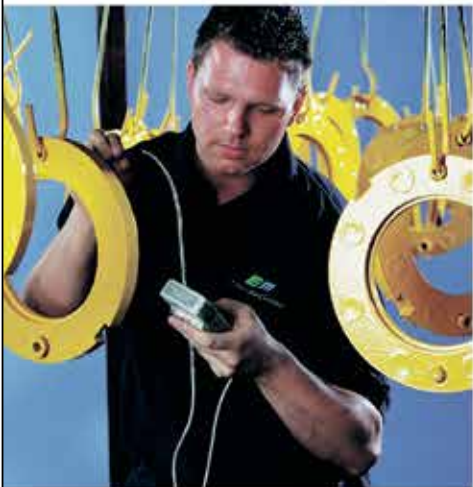
Curtiss-Wright Surface Technologies, one of their most well-known and international subsidiaries, specialises in providing material surface treatment solutions, focuses on enhancing the performance of critical materials and components. As many of their clients are in heavy engineering based industries, critical components are often of vital importance. Not only do they need to be specially designed to precision specifications, but they need to be long lasting and properly maintained too.

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The UK's number one sealing solutions provider

Service Sealing Solutions Ltd provide a number of different sealing solutions across the UK to both the public and private sectors. As the sole UK distributor for the sealing industry's top manufacturers; DOYMA, FRANK and HKD, Service Sealing Solutions Ltd offers the UK the most extensive range of products that are German manufactured and far outweigh that of any competitor.

Service Sealing Solutions Ltd specialises in high-quality service duct sealing systems for utility services and watertight seals. The company's ever growing market range can benefit from its broad scope of innovative sealing solutions alongside receiving the highest level of expertise.

In 2018, DOYMA granted Service Sealing Solutions Ltd the exclusive rights to distribute their products in the UK. DOYMA stands on the front line when it comes to the development of innovative, practical solutions for sealing

and fire systems. Providing the very best in German engineering, DOYMA is used to seal penetration points in walls and floors to permanently prevent any infiltration of gases and water into the building. All DOYMA products are designed to solve all watertight duct sealing requirements, prevent against structural damage and incorporate rubber mouldings that ensure all gas and watertight features.

Demanding building types, such as power plants, large industrial plants, reservoirs or airports, often require highly specialised custom-made constructions. They place high demands on the fact that building penetrations such as cables and pipe work need to be permanently sealed. In the case of extraordinary pipe dimensions or special thermal, chemical or physical requirements, sealing systems in the form of a special construction are the required solution.

DOYMA have the expertise and an experience of over 50 years to develop and produce the best solution for any building or project, using state-of-the-art design and manufacturing methods as well as professional simulation methods to ensure safety when using DOYMA special constructions.

Suitable mostly for builders of commercial properties, Service Sealing Solutions Ltd has a large range of DOYMA products that come with a 25-year warranty. DOYMA product brochures are available on the website and include products that have been supplied to some of the UK's largest projects such as HS2

and Kings Cross in London. DOYMA has recently released its new generation Curaflex Nova® gaskets which are the perfect solution for any professional tradesman instantly looking to solve sealing problems and can be adapted to multiple applications.

As a UK distributor for FRANK puddle flanges, Service Sealing Solutions Ltd provide assured watertight sealing of pipes through concrete walls, foundation plates and manholes. The FRANK puddle flange is an extremely flexible product and comes in a range of versions. Made from EPDM, the puddle flanges act as a barrier which are also chemically resistant to a wide range of acids and bases. Depending on the diameter, they are proven to be tight and to hold pressures between 8 to 10 bars. FRANK puddles flanges also offer exceptional



resistance to ozone and weathering conditions, and can be installed during construction resulting in a perfect cost-effective alternative to conventional sealing systems.

Lastly, Service Sealing Solutions also supplies HKD products, which are now owned by DOYMA. HKD manufacture a large range of pipe sealing systems and service conduits that are guaranteed to withstand up to four bars pressure. HKD systems have a sealing solution for service conduits cast into concrete without the sleeves. They are supplied and ready to use, requiring no site preparation work prior to installation. With options such as KE Socketless service conduits, KG Wall Ducts and Floor Ducts, together with KG Twin Sockets for installation in pump sumps, HKD products are ideal for situations where suitability for thin-walled concrete structures is vital.

Contact
T 01952 510050
www.servicesealingsolutions.co.uk



Service Sealing Solutions Ltd



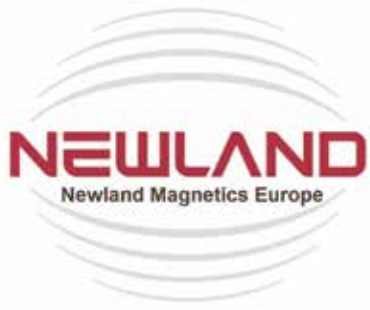
Service Sealing Solutions are the sole UK distributor for pioneering the sealing industry's top manufacturers; DOYMA, FRANK and HKD.

Service Sealing Solutions are the sole UK distributor. Wherever services are installed through walls, ceilings or floors, penetrating water may cause damage to buildings. Lack of attention to the points of entry of pipes and cables into the building can have serious results: damp cellars, equipment damaged by water ingress and high repair costs.

Service sealing systems ensure professional and perfect pipe sealing, thus presenting excellent preventative measures against structural damage.

The very best in German engineering is used to seal penetration points at the wall to permanently prevent any infiltration of gases and water into the building, and the duct sealing systems are guaranteed for 25 years.





Newland Magnetics Europe SAS

Your total magnetics solution provider



Supplying a complete range of magnetic solutions from our European Offices

Newland Magnetics Europe with its offices and warehouse located in France, are part of the Ningbo Newland Magnetics group who have been manufacturing Sintered NdFeB magnets and magnetic assemblies for over 12 years. Now with an annual turnover of more than €30M, ISO9001:2015 & IATF 16949:2016 accreditation and production capacity of 1,000tons per year Newland Magnetics is rapidly becoming one of the largest producers of high-quality NdFeB magnets in China.

Newland Magnetics Europe can provide material data, technical, design assistance and sampling to assist with your application.

Once in production we can also provide a range of stocking options including consignment stocking at our location in France or within your own facility. Newland Magnets also supply Bonded NdFeB, Flexible magnetic sheets, magnetic powder, AlNiCo, SmCo, Hard ferrite and complete magnetic assemblies.



Please visit www.newlandmagnetics.eu

Tel: +33 (0)5 45 83 99 59 | Email: info@newlandmagnetics.eu

A great ConSept from Allerton

Allerton UK is a leading off mains drainage company, covering sales, servicing, commissioning, and repairs of all types of septic tanks, sewage treatment plants, sewage pump stations and soakaways. Working across the East Midlands and beyond, Allerton boasts a team of dedicated and experienced workers, all trained with British Water to ensure they are in the best position to properly assess a situation and correct it.

Established in 1974 by Jon Allerton, the company was originally concerned with draining farmers' fields. However, in the late 1980s, Allerton needed a new direction, and so began its work in off mains drainage.

As well as its sewage treatment plants and sewage pump stations which are made on the premises, Allerton also makes the ConSept. This converts septic tanks into sewage treatment plants, and can be fitted without excavations, apart from the shallow cable and air pipe trenches. This means customers can save around £3,000+VAT by avoiding excavators on site.



The ConSept uses the existing septic tank, removing the need to install a heavy plant or new tank, and it is quick to install to save time, money, and disruption. Moreover, it is manufactured using high grade composite materials and non-ferrous components, meaning the ConSept does not corrode. The equipment also has low maintenance costs, requiring servicing just once a year and desludging and emptying once every two years. Allerton will of course service and maintain all their own equipment, servicing, repairs, and surveys of sewage treatment plants is a major part of their work. The final effluent is discharged into a watercourse or soakaway, and installation and commissioning by Allerton's British Water Accredited engineers is included in the package.

Not only does Allerton install high quality units, the company also focuses on continual service of the equipment. This means that units Allerton has made and installed, of which there are over 1,200, are all still working efficiently across the country.

"In particular, we make sure everything is explained to the customer from the beginning and throughout the process, and we always do what we say we will," said Jon Allerton, Director. "Minor problems are sorted out by engineers



on site, and all the initial customer worries are dealt with in advance. We offer initial onsite advice, help with all paperwork such as planning and Environmental Agency permits, installation and ongoing servicing, including repairs. Every aspect of what we do is to please the customer."

In line with its ongoing expansion, Allerton has been taking on more staff and training them all to British Water standards. "I'm 78 soon, and the company has been recently restructured and is now Allerton Bradley Ltd. Jason Bradley has been a large shareholder for several years, and has worked for the company for most of his life. His knowledge of all things sewage is vast, and at 36, he ensures the company can look forward to another 50

years of good service, and pleasing people!"

Allerton is continuing to expand, thanks to the real and immediate need of the company's services. Allerton's capabilities are helping people across the country save money, maintain their compliance with regulators, and ultimately protect the environment.

For more information on everything Allerton does, head to the website or get in touch using the contact details below.

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Automation



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The image shows a blue OnRobot robotic arm in a warehouse setting, palletizing cardboard boxes. Two circular insets show close-up views of the robot's gripper and the palletizing process. The background shows a warehouse with shelves and more boxes.

BUILDING UPDATE

ISSUE: 657 August | www.solutionspublishing.co.uk



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Demon Designs: Experts in glass

Established in 2011 by Dominic Meakins, Demon Designs specialises in bespoke solutions for glass structures, offering consultancy, design and build services to exceed its clients' requirements every time. Fuelled by a commitment to excellence, the team at Demon Designs always goes the extra mile to ensure complete customer satisfaction, no matter what the project size.

One of Demon Designs' key advantages is its comprehensive service, offering everything the customer might need for their project. "Many of our customers want the hassle removed. For example, if they want a walk-on glass floor installed, they don't want to get a builder in to cut the hole, a plasterer to make good and a decorator to finish it off.

We can do the lot, including engineers' calculations." Recently, Demon Designs joined Check-a-trade, with a view to obtaining more domestic customers in preparation for the uncertainty of the current commercial market. "This has had some success, but we still find that the vast majority of our customers are either returning customers or new customers by recommendation, and you can't really get a better endorsement than that!" Indeed, as well as a loyal customer base, this commitment to customer satisfaction has resulted in impressive successes for Demon Designs over the past eight years, and this year has been no different. "It's been an interesting year for us," Dominic told us. "We have seen a shift in the type of projects we win, moving away from large commercial fit-out projects towards domestic 'Grand Designs' type projects and installations.

In the coming years, Demon Designs is looking to complete more complex projects, to help the company grow even further and build upon its achievements



WATCH VIDEO

since its inception eight years ago. "We want to take on more bespoke projects, big or small. I personally believe that you can only improve by pushing your boundaries, and this is true for business also. We are constantly taking on more challenging projects, often from other companies who don't want the risk. The great thing about this is that we often work for companies that would be considered competitors in other fields."

Indeed, Demon Designs' future ventures are highly anticipated as it continually develops and improves upon its capabilities. The company is always interested in taking on new customers, either commercial or domestic, so get in touch using the details below or head to the website if you wish to discuss your ideas.

Contact
T 01903 733206
info@demon-designs.co.uk
www.archglass.co.uk



Davison Forklift
see them on.....III



Tomorrows Forest
see them on.....IV



Harlequin Flooring
see them on.....V



Tuff Waterproofing
see them on.....XII



Checked Safe
see them on.....XIV



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Pre-COVID-19 restrictions Marlon would travel to Italy

and Spain in the early months of the year, ensuring only the best quality of stock is acquired. This stock would include specimen trees, plants and sundries to the trade. Nowadays, as with most things, this is done via the internet, quality is not compromised as the stock is now 'visually picked.'

Four oaks is a specialist supplier of Mediterranean plants, our stock includes Olives and Palms in pots from 1 litre up to 1,000 litres and these are available all year round.

We have an extensive product line of over 1,500 lines of trees and shrubs on display from starter plants to specimen sizes, as well as young bedding and basket plants for which we are historically known.

Catching site of the recent demand for outdoor seating, specifically from the leisure industry, Four Oaks made the recent decision to begin to stock high quality garden furniture, and this decision has been a resounding success through its sales. Furthermore, we have extended our range of pots, which include terracotta, glazed and authentic wooden half whiskey barrels, just a few



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Water Treatment tanks and systems

2021 was a successful year of Concrete Washout and Water Treatment Systems for Kelly Tanks across the UK, Ireland, New Zealand, Sweden, Spain, France and Denmark, affirming their solid reputation for providing innovative and cost-effective solutions to the construction industry.

The well-established CWS Concrete Washout has remained the product of choice for washing off concrete wagons and equipment onsite whilst demand for Water Treatment tanks and systems for filtration and/or separation has continued to grow. Kelly Tanks remain consistent in releasing new products to help

ensure safe and compliant wastewater treatment on building sites across the UK and overseas including a range of modular Dosing Units used for monitoring and controlling pH & TSS levels and/or providing proportional chemical dosing.

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generating power in remote areas in all seasons and the systems Wind Solar Hybrid MPPT Controller with dump load provides protection functions such as overcharge, over discharge and overload to guarantee peace of mind that power is successfully generated and stored ensuring the user is never left without power.

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

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Forklift Sales & Hire

Your partner for material handling



Davison Forklift was established by John Davison back in the mid-sixties, and was sold to Malcolm Harrison in 2018. Based in Shifnal, Shropshire the company maintains a rich history and has grown significantly since its inception, seeing impressive growth year on year.

"We are a machinery hire company specialising in the hire of forklifts, tractors and telehandlers. We sell, repair and hire the aforementioned machines. We are also dealers for Clark, who invented the forklift in the early 20th century. We take pride in providing a very personal service, which is second to none," said Adrian. Throughout the years, Davison Forklift has explored new sectors and moved its focus into the hire and sales of new product ranges. By consistently expanding upon its product range, has enabled Davison Forklift to be able to discover and move into new sectors and enter higher markets, developing a broader customer base. Davison Forklift has positioned itself firmly at the forefront of the material handling sector, offering a broad range of products, complemented by a highly skilled team of trained forklift engineers that carry out on-site repairs, servicing and health checks. The company specialises in the hire and sales of forklift trucks and is the authorised UK dealers for Clark, Haulotte and Ausa. In addition, Davison Forklift is also part stockists for Clark, Hyster, Samsung, Doosan, Linde, Lansing, Ausa and many more.

In terms of recent developments, Davison Forklift has seen a recent relocation, moving to a new rural location in Yew Tree Lane in Shifnal, Shropshire. This move has helped the company explore new markets and helped to facilitate an investment into new equipment. As such, Davison Forklift has turned its attention to the hire and sale of tractors and telehandlers.

Included in its telehandlers range, the company offers two telehandlers; JCB 540-140 and JCB 535-125. Through JCB's commitment to providing outstanding products for its customers, the brand has flourished, growing from a one-man business into Britain's largest privately owned manufacturer of telescopic telehandlers and industrial forklifts. Both the JCB 540-140 and JCB 535-125 models are equipped with the latest technology and advanced design capabilities, with features such as: low fuel consumption, reduced noise, high torque and power output, total reliability and minimal maintenance.

Regarding its tractor range, the company currently offers one tractor manufacturer available for hire; the New Holland T7.210. New Holland is renowned as a Clean Energy Leader for its active promotion and development of sustainable agricultural technology, offering solutions that enhance efficiency and productivity, while respecting the environment. The T7.210 is a great addition to the company's range and offers a power range of 140 to 210 HP, with a rated engine speed of 2,200rpm.

If you would like to find out any further information on the company, please see the details featured below.

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The highly raved about varnish can be seen on yachts and boats, whether in fresh water, sea water, or sludge up and down the country. Not only that, but you can also use Le Tonkinois Varnish in kitchens, outdoor and interior woodwork.

As a result of being fully waterproof and non-microporous, the varnish is resistant to boiling water, alcohol and has even been classified as safe to use in food areas.

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a particular colour is desired, whilst still allowing the wood to breathe, a feature not typically found among other varnishes.

The varnish is also naturally glossy and can be made matt or satin with an additional coating of Gelomat.

If you would like to find out how you can get your hands on some of the remarkable Le Tonkinois Varnish, or would like to find out how you can use it for your own needs, then be sure to get in contact using the number below.

Alternatively, more information can be found by checking out the website.

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01628 548840

Together we can restore biodiversity and rewild our world

In September 2020, Creating Tomorrow's Forests was established by Nick Hollingworth and Liz Boivin, with the mission to fight climate change and restore biodiversity across the UK. Creating Tomorrow's Forests enables businesses and individuals to actively invest in the natural environment, by channelling their funding into high quality biodiversity restoration and afforestation projects. Sister company, Tomorrow's Forests, which was established in 2014, specialises in high volume commercial reforestation, and provides the planting expertise linked with scientific research, to make sure the right species of trees are planted in the right areas, and additional habitat such as ponds and meadows are created alongside to maximise the biodiversity at each site.

So as well as offering tree planting services for our customers, we have now launched a totally new biodiversity banking programme which empowers businesses and individuals to fund active ecosystem restoration. For the first time investors can channel their funding into specific high quality habitat creation projects including wetland, meadow, woodland, or marine seagrass ecosystem restoration."

In return for their investment, customers of Creating Tomorrow's Forests will then receive detailed updates on the progress of their project and can visit the site in person, engaging them with the whole restoration process from start to finish.

And it is certainly true what Liz says – during the lockdowns across the world due to COVID-19, nature reclaimed many areas and people had more time to take stock and really discover what state the world was in.

"Oceans were cleaner, animals were wandering the streets where they hadn't been before – it really put things into perspective for people. It's important we take care of what we have. Scientists have been saying for years that we need to protect our climate, but

"We started acquiring land, offering businesses and individuals the chance to give back to nature and create biodiversity in places where it has been lost," explains Liz. "We are very excited about this project, and it is going well because businesses are prioritising sustainability and examining their environmental impact. We have already completed tree planting on a new wet woodland site in North Somerset and are currently working on new habitat creation projects in the North Devon Biosphere.

it's easy to forget about this in day-to-day life. Putting a break on everything we were used to during the lockdown switched many people's focus to nature, with more of us taking walks in nature and in woodland.

For this reason and because of the push for carbon capture schemes and biodiversity restoration, Creating Tomorrow's Forests has been getting more and more interest from businesses and individuals.

We are looking forward to developing the company further throughout the year and are already working on a number of exciting projects. We currently plant 2 million trees each year with Tomorrow's Forests, and we want to reach the same point with our sister company, while also restoring biodiversity and creating new ecosystems throughout the UK."

A lot of people are becoming more interested in biodiversity restoration and tree planting and the benefits it has, sequestering carbon and increasing biodiversity and habitats for animals. I think COVID-19 has brought things into perspective for a lot of people in this sense."

Indeed, although the pandemic halted many of Tomorrow's Forests' operations in line with the construction industry, it meant they had more time to focus on developing their new venture. "We wanted to work on expanding Creating Tomorrow's Forests, acquiring more sites and diversifying what we offer.

As well as offering expertise in restoring habitats, Creating Tomorrow's Forests also offers professional biodiversity offsetting services for businesses and construction projects required to demonstrate a biodiversity net gain.



You can contact the team to discover more about their full range of flexible habitat creation services.

If you would like to find out more information on either Tomorrow's Forests or Creating Tomorrow's

Forests, head to the websites or get in touch directly using the contact details below.

T 01258 818003 Head Office
M 07824 673239 Nick Hollingworth
(Managing Director)
M 07760 263548 Elisabeth Boivin
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HARLEQUIN

Timber

Vandecasteele Houtimport receives the Voka Charter Sustainable Entrepreneurship (VCDO) certificate for the 21st time in a row!

On Wednesday, the 29th of June, we attended the inspirational award ceremony of the Voka Charter for Sustainable Entrepreneurship.

The award is a recognition of the sustainability efforts of the participating companies.

We received our award for the 21st time, along with 38 other West Flemish companies.

International reference

The VCDO is linked to the 17 Sustainable Development Goals (SDGs) of the United Nations and thus has an international frame of reference.

The external validation and the structure of the VCDO support companies in making efforts to embed sustainability in their business strategy.

The balance of all sustainability aspects,

ranging from the well-being of employees to the environmental impact of the company, is more relevant today than ever.

We are also nominated SDG Champion with our strategic transition project 'trading 100% certified wood by 2025.'

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L-R: Stefaan Vandecasteele – Owner, Geneviève Standaert – Export Manager, Isabelle Polfliet – Compliance Manager

30 years of joinery excellence – Happy Birthday to us!

Bluerun Ltd is dedicated to manufacturing top quality, bespoke custom-made joinery for the domestic and commercial markets. All of our joinery is manufactured on premises using hardwood, softwood or sheet materials. As well as offering finished goods sprayed to a primed or painted finish, Bluerun Ltd also offer other treatments and installation services for some products.

Bluerun Ltd is a family run business and was established in October 1991 by its current Managing Director,



John Jones. Based in Wimbish, just outside Saffron Walden in Essex, its factory covers 7,000sq. ft.², and can manufacture in hard or softwoods, and veneered and painted panels. Its modern spray paint and lacquer facility enables products to leave the factory in a fully finished state. The ethos surrounding the company boasts comradery, team work and dedication to the customer. Here at Bluerun Ltd we promote quality, family and pride in all that we do. The bespoke items manufactured in our workshops are made to a high standard thanks to the joiners who make them. The whole team take pride in their work.



A proud moment, in 2019, John Jones' daughter was the most recent addition to the board. From humble beginnings, the company has gained remarkable growth within the building trade and is well known for its top-quality joinery. Our bench joinery team is small and has extremely high standards. Whilst we use power tools and machinery, there is no CNC or computer aided design, or drawings used. We pride ourselves on being 'old school,' and still use hand tools to finish off many of our bespoke items. Everything is designed in-house, that is if no drawings are supplied by the clients.

For the commercial industry, the majority of its production is for commercial builders and manufacturing. Bluerun provides all type of commercial joinery products from large-scale repeat production runs of windows, frames, and doors, to both large and small-scale customers for internal and external projects.



October 1991 marks the company's 30th anniversary of incorporation – what a tremendous achievement made by all. We are all extremely proud. The company couldn't have made it this far without our joinery team and our loyal clients we have worked with over this time. Some employees have worked with John since the 1970s, at a previous company, and we believe that we have a great and loyal team.

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Make your project possible

Building Update is proud to announce that DCON Safety Consultants Limited has received our Commitment to Excellence Award for 2020.

DCON Safety Consultants Limited offers leading health and safety consultancy and construction statute advice services. The company prioritises and specialises in the highest levels of informed and intelligent advice, senior project resource allocation



and compliance assurance. Informed by industry expertise, DCON Safety Consultants Limited knows that every project has potential risks, no matter what its potential benefits, so its team of highly experienced construction professionals helps to ensure clients' statutory conformity.

Upon gaining understanding of the specific needs, goals and desires of each client and their project, DCON Safety Consultants Limited is dedicated to implementing a design and construction management plan that will meet or exceed these requirements.



And, DCON Safety Consultants Limited ensures that there is honesty, integrity, trust and professionalism underpinning every project.

Moreover, the company's services are centred on three delivery principles:

- **Maximising Quality:** The company implements proven health, safety and wellbeing strategies to help clients achieve high quality and cost-effective work commensurate with the design of their projects.
- **Minimising Risk:** The company effectively manages design and delivery risk on projects to match each client's desired risk level profile.
- **Managing Compliance:** The company relies on its extensive background working on a wide variety of projects to assist clients in developing, monitoring and maintaining compliance performance.

This excellent service would not be possible without the leadership of Diarmuid Condon, a construction industry leader who brings unique perspectives to encourage, support and mentor the abilities of his colleagues. As a construction professional with a surveying background and experience spanning two decades, Diarmuid is emblematic of DCON Safety Consultants Limited's commitment to providing outstanding services to clients.

Diarmuid has contributed his invaluable expertise to over 400 projects over 20 years, with a client list including public sector departments, corporate owners, real estate developers, main contractors, design professionals and infrastructural bodies. With this incredible portfolio, Diarmuid is helping DCON Safety Consultants Limited to become a leader in health and safety consultancy across the construction industry.

Key to DCON Safety Consultants Limited's services is working as a Project Supervisor

for the Design Process (PSDP) in various sectors across the Irish construction market. No project is too simple or too complex for the company's PSDP consultants, all of whom are construction professionals with an average of 20 years' experience in the built environment. The ability to maximise this knowledge and skillset means DCON Safety Consultants Limited can generate distinctive and innovative ideas from traditional PSDP service inputs and outputs.

Additionally, DCON Safety Consultants Limited offers planning compliance assurance services. The ability to strategically support a positive planning decision is exclusive to the company. Its Draft Construction Management Plans (DCMP) inform the overall planning, coordination and control of a project from the beginning of construction to completion. The DCMP also safeguards the obligation placed upon a client to produce a safe, functional and financially viable project.

DCON Safety Consultants Limited also provides its main contractor clients with intelligent, practical, and reasonable physical site safety advice to support compliance and good practice adherence. Behavioural safety outcomes inform how the company approaches each solution with the contractor and their supply chain, identifying opportunities for improvement.



To complement this, DCON Safety Consultants Limited can also help with clients' health and safety strategy. Its holistic and integrated approach can help unlock substantial benefits for clients by providing a structured, objective and SMART framework for full optimisation through the creation of an environment that embraces health, safety and wellbeing.

This means DCON Safety Consultants Limited helps clients to improve their health, safety and environmental performance; enhance staff satisfaction thanks to improved performance; improve risk management and corporate governance with a clear audit trail; gain confidence from long-term planning, better sustainability and

performance; and improve overall corporate reputation, including greater staff satisfaction and a more efficient procurement and supply chain.



Finally, DCON Safety Consultants Limited can offer a safety expert witness service, which is headed by Diarmuid himself. He has extensively supported safety-related matters, and is a certified and competent safety professional who will work with clients to identify exactly what kind of safety expert is needed. Then, he will use an extensive network of contacts to recruit the right person to protect clients' interests.

DCON Safety Consultants Limited's fantastic service offering and proven track record

of offering leading health and safety consultancy services makes the company a worthy winner of our Commitment to Excellence award. Such achievements are proof that DCON Safety Consultants Limited is well-placed to help ensure your safety, health and wellbeing and make your project possible.

If you are interested in finding out more information on DCON Safety Consultants Limited's full range of excellent services, head to the website or get in touch directly using the contact details below.

T +353 (0)1 611 1556
info@dconsafety.com
www.dconsafety.com

Your partner in fire safety



In this issue of Building Update we are proud to announce that we have selected

DB Fire Safety Limited as the recipient of our Commitment to Excellence Award.

DB Fire Safety Limited is situated in Peterborough and was set up in 2013 by its Managing Director, David Black. David is a qualified fire risk assessor with over 30 years' experience working in the fire safety industry, with accreditation including from the Institute of Fire Safety Managers, 'Register of Competent Fire Risk Assessors.'

David first launched DB Fire Safety Limited after gaining experience working for two years as an independent fire safety consultant. Recognising the need for his services, David

launched DB Fire Safety Limited to provide independent fire safety consultancy, serving clients throughout the UK.

"We are an independent fire safety consultancy specialising in carrying out fire risk assessments. Our main operations consist of carrying out fire risk assessments and providing fire strategy documents for new buildings under construction", said David.

"In addition to offices and factories, we specialise in carrying out fire risk assessments of schools, residential care premises, hotels, and blocks of flats. We also assist building contractors and architects in developing fire



& evacuation strategies for buildings under construction or renovation," added David.

DB FIRE SAFETY LTD
TEL: 0800 772 0559
enquiries@dbfiresafety.co.uk

THE FIRE SAFETY ORDER

The Fire Safety Order 2005 requires that all businesses, including schools and all other educational establishments, have an up-to-date fire risk assessment and that staff receive instruction in fire safety procedures. Legislation also requires that fire risk assessments are reviewed on a regular basis (recommended to be at least annually).

It is critical that there is a suitable and sufficient set of procedures for staff to follow in the event of a fire emergency. Therefore, all staff must receive appropriate training in those procedures must be tested by carrying out regular fire evacuation drills.

It is also strongly recommended that all staff should receive instruction in general fire safety awareness. Such training would enable staff to fully understand the fire hazards and risks in their respective areas and, therefore, hopefully help prevent a fire from occurring in the first place.

In many schools, there may also be a requirement for senior staff to be designated as Fire Marshals; to have particular responsibilities in the event of fire.

DB Fire Safety has vast experience in dealing with all kinds of educational establishments; specialising in carrying out fire risk assessments and providing training to staff. Our training courses can be provided on site or can be accessed via our variety of e-learning courses. These are modular and can be accessed remotely as time allows.

From our offices in Peterborough, we cater for clients throughout England and Wales and offer a FREE 24hour consultancy service.

For more information regarding fire risk assessments or staff training, call 0800 772 0559 OR Email enquiries@dbfiresafety.co.uk



DB FIRE SAFETY

Through the company's industry leading expertise, DB Fire Safety Limited understands the difficulties in navigating fire safety legislation, and as such, the company prides itself on being 'your partner for fire safety'.

Under David's leadership and industry leading expertise in the fire safety industry, the company is well equipped to assist its clients and help to provide their client's businesses with a comprehensive document to identify potential sources of ignition, the likelihood of a fire occurring and the potential impact that a fire would have on its occupants. An assessment is then made of the documented procedures that outline actions that need to be followed in the event of any fire incident, and the required level of training and practice needed.

One of the main advantages of using DB Fire Safety Limited's services is its honest and efficient service, as an independent business without any conflicting interests.

David explained, "The benefit of employing ourselves is that we have no potential conflicts of interest in supplying or maintaining fire extinguishers, fire alarm systems, or installing fire doors etc."

The company also provides in-house training for Fire Wardens and Fire Marshals, as well as online courses, to keep staff and businesses compliant and safe. In addition, DB Fire Safety Limited also provides training courses for general fire safety awareness, which can be carried at the client's premises or via its online E-Learning modular courses. The online courses are a great resource for refresher training.

As the company looks to its future, DB Fire Safety Limited maintains its overall goal of continuing to provide its clients with the best support possible. David added, "We want to ensure their premises are safe, and that business owners and managers meet their responsibilities under fire safety legislation."

If you would like to find out any further information on the company, please see the details featured below:
T 0800 7720559
enquiries@dbfiresafety.co.uk
www.dbfiresafety.co.uk



We are an independent fire safety consultancy providing support to schools across the whole of England

SERVICES WE PROVIDE
FIRE RISK ASSESSMENTS
FIRE DOOR INSPECTIONS

Unit 1, Wittering Service Station
 Townsend Road
 Wittering
 Peterborough
 Cambridgeshire
 PE8 6AB



Drainage & Sewage Treatment

H.D. Services Ltd: Sewage Treatment and Water Boreholes

Founded in 1984 H.D. Services Ltd. aim to provide the highest quality percussion drilled boreholes, sewage treatment systems and Open-Loop ground source heat pump installations in the Southeast. Feasibility of any project can generally be confirmed upon receipt of a site postcode.

We offer a one stop shop for self-builders, developers, contractors, consultants and architects, providing waste and drainage solutions, independent water supplies and renewable heating options – all specifically tailored to meet individual needs and suited to the geology of the Southeast.

Sewage Treatment, Boreholes and Soakaways
We have been involved in the design, supply and installation of sewage treatment systems for over 30 years. We can either provide package solutions or we can design bespoke systems to meet individual client needs.

Projects undertaken throughout the southeast range from small solutions for single households to larger scale solutions for estates, business parks, farms, schools, caravan sites, hotels and public houses.

We offer a support service for consent to discharge

applications to the Environment Agency – a requirement when installing sewage treatment systems.

All our boreholes are constructed using the cable-tool percussion method – preferred by the Environment Agency (EA) when drilling the chalk aquifer – and are logged with the BGS. Our underpinning ethic is that we want to protect the aquifers from which we make our living.

Ground Source Heat Pumps

We are award winning installers of Open-Loop GSHP



installations. These systems utilise ground water as a heat source. Groundwater is pumped from a water supply borehole directly to the heat pump where temperature is extracted. The water is then returned to the aquifer, normally via a buried harvesting tank where it can start to regain this temperature. As ground water is utilised, there is the option of a potable water supply (subject to analysis and suitable filtration) or irrigation.

For more information, please visit:
www.hdservicesltd.co.uk

Concrete Channel with Basalt Fibres: New Era Begins for Hauraton

Hauraton makes concrete material even more efficient for modern drainage technology by enhancing the formulation with natural basalt fibres.

The addition of mineral or textile fibres increases maximum stability, strength, and impact resistance. By amplifying the impact resistance, the more robust and durable the product. This is particularly important for components that are exposed to considerable dynamic stresses, in this case, drainage channels subject to vehicles at high speeds or regularly trafficked by heavy loads.

Basalt fibres: Natural and sustainable

Hauraton's new era in concrete production by utilising basalt fibres has not only created a durable building material, but also one that is 100% natural. The basis of basalt rock is available all over the world in large quantities, which is formed naturally on the earth's surface. By combining basalt fibres with the well-known material concrete, both the structure and the service life of the product is increased.

Mineral mixture: Easy to recycle

Since the end product is a purely mineral mixture, there is no need for material separation during disposal. This protects the environment as it is simply fully-recyclable at the end of the product's life cycle.

Convincing strong properties

Basalt fibres have outstanding properties. They can withstand temperatures of up to 800°C and are highly resistant to alkalis, acids, salts, oxidation and radiation.

The effects of adding basalt fibres to precast concrete elements gives even more of a dimensionally stable, resistant and durable structure. Drainage systems made of basalt-reinforced concrete will assure longer performance.

Basalt fibres are versatile and climate-friendly

Basalt fibres are mineral fibres that have a higher melting temperature, better resistance to water, acids and alkalis, and more positive flexural strength. All this makes basalt fibres attractive in drainage technology, but also numerous other applications in construction.

Given the stricter climate targets, the energy consumption during production also clearly speaks in favour of basalt fibres, as basalt it has the lowest CO₂ footprint.

Click here to learn more about FASERFIX
linkable to this URL: https://global.hauraton.com/en/faserfix/?utm_source=bcr_publication&utm_medium=mail&utm_campaign=faserfix_bcr_online

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With the best properties from basalt fibres.



Steel Buildings

Steel buildings to suit all budgets



Founded by Dave O'Brien in August 2017, Castle Steel Buildings has evolved from a basic start-up, operating on what was essentially a franchise model, to a rapidly growing construction company with a permanent install team and a developing back-office operation. Previous to the company, Dave O'Brien had worked in the steel construction industry as an installer for over 20 years. After many years, Dave was keen to build his own business that offers bespoke steel buildings with a guaranteed installation option. On the search for a business partner who could run the administration and logistics side, Dave approached John Rosling, who had a number of years' experience in public and private sector management. Since joining, the business has grown in strength at a fast pace.

Today, Castle Steel Buildings is well-known as an industry leader in its field. Offering a number of services to suit every budget including steel buildings for agriculture and rural, commercial and industrial, garages and sheds, as well as cladding installation. Understanding that customers prefer a personalised service, Castle Steel Buildings is committed to ensuring 100% satisfaction from start to finish and prides itself

on its; affordability, to offer cost effective light weight composition of the buildings designed to reduce production and installation costs; versatility, with a range of buildings to suit every application; and top British quality, endeavouring to always support British economy. All Castle Steel Buildings materials comply with British Standards BS 6399(pt 2) and exceed ISO9001:200.

"These are among the many qualities that set us apart from our competitors," mentioned John Rosling, Director. COVID-19 has left a dramatic impact on steel production over the last 12 months, with many steel mills across the world shutting down. As such, steel suppliers are running low on stock, the price of steel has risen and there are incremental delays to customer orders. Castle Steel Buildings has worked hard to ensure this implication has not affected its production and most of all, its service to its customers.

"One of the major things we've noticed over the last year is that many people are put off having their steel building because of the cost of raw materials, something that has increased enormously with the pandemic and global shutdown. We've met this

challenge by partnering with Peregrine Finance in York to offer a bespoke finance solution. This is a great option for companies looking to get their projects off the ground quickly while spreading the cost over time," said John. With more to offer in its arsenal, we asked John what the company's future plans were, he answered, "Alongside a determined go for growth mindset, we're focussed on developing our range by introducing hot rolled steel designs. Cold rolled steel is inexpensive and effective but there are some limitations in the scale of building that can be done in cold rolled steel."

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ModCon Cabin Trader Ltd

ModCon Cabin Trader was formed in 2017 by Alan Willets of whom has 25 years experience of working for some major manufacturers in the Modular & Portable Building Industry.

ModCon Cabins as it is also known manufactures and supplies Steel Anti Vandal Portable Cabins, Containers, Modular Buildings and all site ancillary items associated with the Portable Building Industry. Please visit: www.modconcabins.co.uk

Items such as Portable Offices, Canteens, Toilet units, Drying units, Storage Containers, Chemstores, Smoking Shelters, Effluent Tanks, Staircases are regular and repeat

produced items that we manufacture for our clients.

Based in Gloucestershire in the South West we are logistically nicely placed around all the major motorway networks for ease of transportation.

Our workforce are all very skilled and experienced fabricators of whom have many years experience working within our industry and so know the expectancy of our customers requirements so you can be sure that if you approach ModCon Cabins to undertake your work you are in very good hands!

Being that all items produced are mostly built on a jig and

to customers own specification we are open to undertaking bespoke enquiries too so please feel free to engage with us here at ModCon Cabins even if you have a rather random enquiry for certain products.

Why not also take a look at ModCon Cabin Traders other side of the business which is an Auction/Resale website that allows all and sundry to utilise the site to sell new & used Portable Building products which operates very similar to a well-known auction/resale site we are all familiar with, however only for products relating to our industry.

Please visit www.modconcabintrader.com





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INTRODUCING



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Cracking egg processing equipment from 4pe Systems Limited

4pe Systems Limited is an egg handling and processing equipment provider and stockist of Kletec, Nuovo



and is an agent for SANOVO and STAALKAT. Based from its location in Shrewsbury, the company provides a wide range of expert services including maintenance, installation and sales throughout the UK and Ireland. 4pe Systems Limited provides a comprehensive service, establishing itself as a one-stop-stop solution for egg processing equipment.

In terms of its range, 4pe Systems Limited provides sales services for egg handling and processing equipment including: egg stamping, packaging, pasteurization, eggshell processing, breaking, loading, Farmpackers, graders and much more. Furthermore, the company can provide equipment for a wide selection of processes and sizes, from small Farmpackers right up to large egg processing systems; 4pe Systems Limited can do it all!

4pe Systems Limited has gained a reputation for quality, which is reflected both in its products and services. Using Dutch innovation and expert engineering, 4pe Systems Limited's range is fully comprehensive, reliable, robust and efficient. Better yet, the company's range is supported by a friendly and reliable team who is always around and able to pick up the phone, with a positive, helpful reply to assist its customers, whenever they need them.

T 07801 565860
www.4pe.co.uk

New innovation to the TuffStuff® range; TuffStuff® flexible GRP

Tuff Waterproofing is a provider of waterproofing liquid solutions for flat roofs, which are comprised of GRP, flexible GRP and polyurethane. Using its advanced TuffStuff® formula range, which uses the latest liquid polyester resins, glass fibre mat reinforcement and flexible edge trims, it creates a fully integrated 100% waterproof seamless finish. The TuffStuff® product range is used for various applications and across multiple domestic and commercial environments.

With an impressive history which spans across 30 years' experience, Tuff Waterproofing has invested heavily in research and development, company processes and its team to ensure that its TuffStuff® range of products, continue to exceed expectations and set new standards in flat roof waterproofing solutions. From the company's bespoke premises based in North Yorkshire, Tuff Waterproofing maintains its operations on a national scale, supplying its products through a dedicated Stockist network located throughout the UK.

Regarding its progression over the last year, Tuff Waterproofing is pleased to have continued to progress significantly since 2020. With the impact of the COVID-19 pandemic affecting many industries, Tuff Waterproofing was able to remain open throughout and further developed on its product range during the last 12 months.

We caught up with Greg Gimenez, Managing Director of Tuff Waterproofing and asked him about the company's developments over the last year, he stated that, "We have progressed very well. We didn't have to close during the Pandemic because we are in the construction industry, so the government's directive was to stay open. We have mostly remained the same, we're always trying to develop new products and develop our existing products. We're quite happy with the overall year and foresee further progression for 2022."

The company has continuously accumulated growth year-on-year and established an enviable reputation, becoming a key figure in the GRP flat roof market and resulting in TuffStuff® becoming the UK's premium

designer and supplier of heavy-duty GRP waterproof flat roofing systems.

Regarding its team, TuffStuff® maintains a dedicated product development team that work closely with its customers to produce a consistently, evolving product range that is suitable for multiple flat roof applications. This commitment to continuous development is echoed throughout the company and its dedicated team of UK based product developers work with UK manufacturing facilities, with the ambition of pushing and setting new standards of GRP roofing systems, to new levels.

A vital part of the company's business is its exceptional technical support service and Tuff Waterproofing ensures it provides premium quality and agility, in responding to and resolving customer queries professionally, efficiently and to the highest standards. The company prides itself on providing the highest standards of customer service and its main ambition is to instil confidence in its customers, that they feel fully supported.

"As I have always said, the life blood of this company is the service, exceptional training and technical support that we give. It's more than just providing products, it's all about the service and support," Greg added.

In terms of the company's most recent developments this year, Tuff Waterproofing has further expanded its TuffStuff® product range and is now offering its latest GRP roofing innovation; TuffStuff® flexible GRP. TuffStuff® flexible GRP is a single resin solution that provides an exceptional combination of versatility



and durability. It's extremely quick to lay and does not require stripping or re-decking of the roof, saving customers both time and money. It can be applied to a variety of surface types and structures including vertical sections.

Requiring only two coats and 225gsm reinforcing mat, it can be applied within two hours. The TuffStuff® Flexible GRP forms a highly flexible, extra tough and seamless waterproof membrane, making it an ideal solution for areas of heavy-duty foot traffic. The solution can be applied directly to felt, asphalt, single-ply, GRP, concrete, timber or metal. Its highly flexible, extra-tough and seamless waterproof membrane makes it reliable when added to vertical sections without the concern of sagging. Furthermore, the solution is a fast-curing system with walk on time of between 30-60 minutes. Once laid and whilst curing, the product is showerproof.

Specifically designed for durability in mind, the TuffStuff® Flexible GRP is extremely robust with one coat needed for a 10 year system or two coats required for 20 year system, and is crack resistant with no risk of weak points. The 20 year system qualifies for a 20 year guarantee on materials.

On the back of its successful launch of TuffStuff® flexible GRP, Tuff Waterproofing is planning to further feature its new product at various tradeshow throughout 2022. These include: UK Construction Week 2022 in May, in London and UK Construction Week 2022 in October, in Birmingham.

As the company looks towards the future, Tuff Waterproofing foresees many challenges that they will have to overcome, but believes firmly that it has the right structure in place to provide the company with the perfect platform to be able to consistently respond and evolve its product range, while providing outstanding support to its customers.

Indeed 2021 has seen impressive growth and development for Tuff Waterproofing and the company anticipates much more progression, leading on from its new product launch. After what many industries have deemed as a challenging year in regards to



the COVID-19 pandemic, Tuff Waterproofing has showcased its industry leading expertise and is pleased to have been acknowledged for their hard work.

For more information about the company or to view its range of products, please see the details below or alternatively, contact them directly on the number stated.

Contact
T 01977 680250
www.tuffstuff.co.uk



FLEXIBLE GRP

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It's a single-resin solution which can be applied to a multitude of surface types and structures including vertical sections.

With two coats applied within one hour, TuffStuff® Flexible GRP will form a highly flexible, extra tough and seamless waterproof membrane - can be a solution for areas of heavy duty foot traffic.

TUFF STUFF FLEXIBLE GRP



www.tuffstuff.co.uk

T 01977 680250
orders@tuffwaterproofing.co.uk

Whatever your requirements – we are always pleased to help

South West Lightning Protection, is a leading provider of lightning protection installations and testing services throughout the UK. Established in 2014, by Gary Libby, Gary has 40 years of experience in the industry and maintains a team of lightning conductor engineers and designers accredited by the Association of Technical Lightning and Access Specialists.

"South West Lightning Protection holds Health and safety accreditation by Safecontractor, which audits the company training and safe systems of work, all our engineers are CITB card holders for the works they undertake and are DBS checked." Gary Libby stated. "Our core service is lightning protection installations and testing; we also design new systems, as we are accredited designers."

With two office locations based in Plymouth and Scotland, South West Lightning Protection is ideally situated at both ends of the country, enabling them to be able to provide services throughout the UK.

Maintaining a comprehensive range of expert services, South West Lightning Protection provides an abundance of specialist electrical services including lightning protection risk assessment, design & installation, test and inspection of all lightning conductor systems, test and inspection of safety line systems, early streamer systems design, installation & testing, earthing services and rope access.

The company maintains a diverse portfolio of clients, spanning across several industries including Commercial clients, Electrical contractors, Ministry of defence, NHS, Water companies, Telecoms & Facilities Management companies and individuals.

Dedicated to providing outstanding levels of customer services, South West Lightning Protection prides itself on providing a truly personalised service.

"As we are a small company in comparison to our competition," Gary explained, "We strive to provide a personal service to our clients. For instance, the client has direct access to the South West Lightning Protection point of contact and can contact inspection and installation engineers directly which speeds up client response times. We do not have different company contacts for quotes, works or accounts, our clients only have to deal with one person."

Regardless of project size, South West Lightning Protection is well equipped to provide technical assistance on any aspects of its clients lightning protection systems.

A noteworthy project for the company, South West Lightning Protection were asked by the RNLI based in Poole, Dorset to provide lightning protection for their new Explosive Store. In addition to this, the company also carried out repairs and testing, to the Main College and associated ancillary buildings on the site.

In terms of the latest developments for the company, Gary told us that, "We have recently commenced testing of Roof mounted Horizontal cable based mansafe systems, permanent ladders, guard rails and safety anchors. We provide these services independently from our lightning protection services or combine them which can provide a cost savings for clients."



With the on-going COVID-19 pandemic effecting many industries, there have been many challenges for company's especially surrounding lockdowns, furlough and delays and decreases in production and sales. South West Lightning Protection has also faced challenges, Gary remarked, "COVID-19 has caused disruption to the Lightning protection industry, however as South West Lightning Protection provides safety critical works to the MOD, we are classed as essential workers so have maintained a reasonable level of works throughout the pandemic."

We have produced a company COVID policy which protects both our operatives and clients, and we work with clients to ensure we are in compliance to any restrictions on works which may be stipulated by customers."

Able to maintain its services throughout the pandemic, South West Lightning Protection has not only maintained its working levels, but the company has also managed to grow and adapt to new procedures and regulations. Moving into the company's future, South West Lightning Protection plans to continue its growth within the lightning protection sector and is dedicated to its preservation of providing long term employment to its existing work force and additional, new employees.

With such an array of expertise and dedicated services, South West Lightning Protection is perfectly positioned with the skills to ensure that whatever your requirements, the company is here to help and carry out all work in an efficient, professional and safe manner.

For any other information, head over to the website below or alternatively, to speak to the company directly, please see the number stated.

T 07807 334441
www.lightningconductor.org



Airport Business Centre
Estover
Plymouth
PL67PP

Also located in Scotland,
& London



Formed in 2014, and having over 40 years of expertise in the lightning protection industry, South West Lightning Protection, provides a full range of services from our office locations in the UK. With our trained operatives we are able to provide a full range of services, from conception to completion, and with our Safecontractor accreditation you can be assured works will be carried out adhering to all relevant health and safety requirements.

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Web: www.lightningconductor.org

Email : North@lightningconductor.org — South@lightningconductor.org

Complete compliance solutions



We are pleased to announce that CheckedSafe has been selected as the recipient of our Commitment to Excellence Award.

Since 2014, CheckedSafe has provided simple and inexpensive tailored compliance solutions. Established by Gary Hawthorne and Darran Harris, CheckedSafe is a SaaS platform compliance provider providing several apps and a web-based reporting system that is multi-functional and secure.

The CheckedSafe system offers organisations a complete solution, enabling them to manage and protect their workforce and comply with legal compliance requirements whilst reducing cost and liability. "We can provide you with a fully integrated solution – you can be completely paperless – also by using our system properly you will have a legally defensible product. We bespoke templates on the app to suit individual requirements, our latest release now means that the client can also do this themselves," said Gary.

Located in Burnley, its system is global and can be accessed from anywhere as long as you have an internet connection for the management portal, the app itself works off line and on-line so there is no restriction on using the app.

Both Darran and Gary's individual expertise has resulted in CheckedSafe being a nationally recognised company. "I am a transport professional with 30+ years in commercial transport, and Darran has 25+ years as a solicitor, so our individual skills set us apart from other 'IT' providers in the industry," said Gary.

CheckedSafe has a range of services from



vehicle compliance solutions, compliance and regulations, risk assessment and incident reporting tools via the App that enables them to offer the client a complete solution. Gary explained, "We constantly develop our product from user feedback. We release new features at least every quarter and a new app probably every four months depending on what features we have developed. Customer feedback is critical to us, we know a lot about transport, but the end users have great ideas that we take on board and use to develop free of charge and push out to the CheckedSafe community."

CheckedSafe's web-based reporting system is accredited by DVSA and the FLTA and utilised across all fleet types of HGV, PCV, VAN, plant or utilities. If it needs a checklist, CheckedSafe can digitise and catalogue it, providing you with a cost-effective compliance solution.

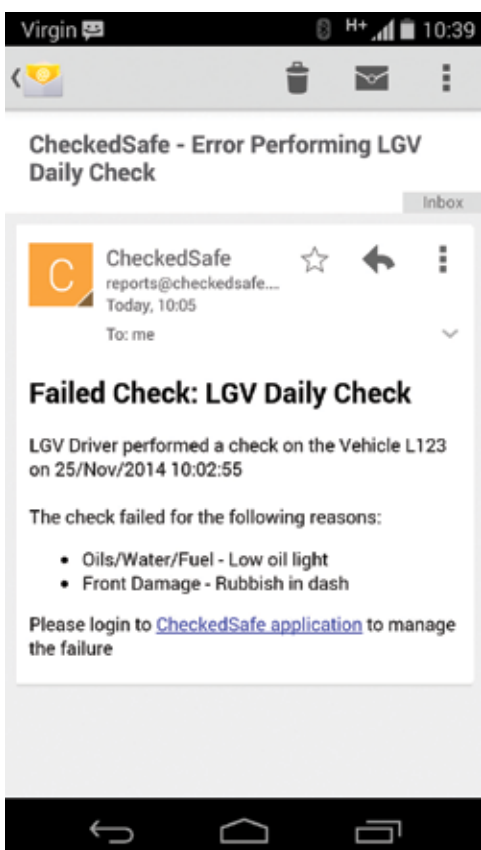
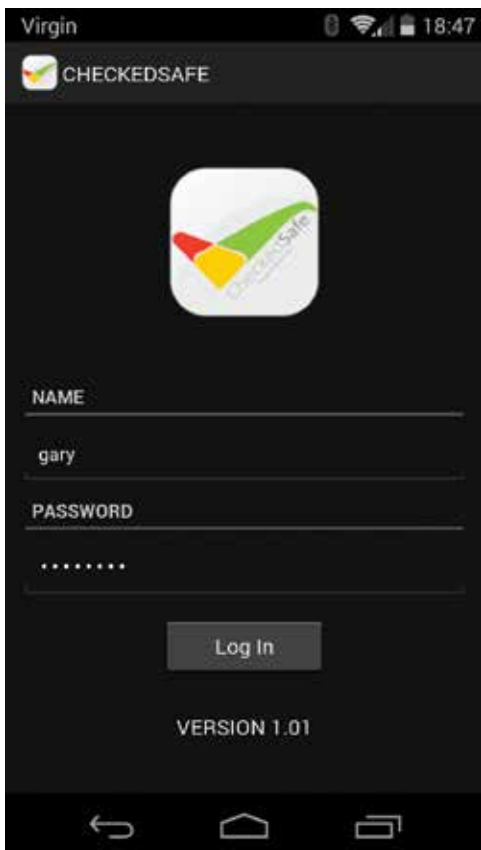
With much of the industry yet to explore, over five million commercial vehicles in the UK and over 20 million pieces of plant, there is a huge market for CheckedSafe to expand into. "Our plan is to furrow into the fleet industry and develop new

features, and if from this market we get new ideas then we will look to develop them further. We have recently developed our API to link with Dynamic 365 for a large crane operator which will come into development later this year/early 2022," stated Gary.

Despite COVID-19, CheckedSafe has managed to outsource all marketing resulting in an increase in in-bound enquiries. Utilising platforms such as Zoom and Teams, less time has been spent travelling and more focus has been on growing the business from home.

Eight years ago, CheckedSafe was an idea, that today, has flourished into a fully successful business. Gary and Darran are passionate about what they do and provide a skill set that boasts professionalism and expertise. "We know our industry and our clients have an immediate infinity with us and put faith in us," said Gary.

Contact
T 01282 908429
info@checkedsafe.com
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Traditional brick production specialist

The Bulmer Brick and Tile Company, based in Suffolk, is a family-run business established in 1936. With

over 80 years' experience in the industry, the English company truly is a master of its craft.

The Bulmer Brick and Tile Company is renowned for its traditional handmade bricks which, fired in a down draught kiln, have a distinctive finish that blends well with the original London clays bricks. The beauty of the Suffolk company's bricks lies in their traditional production method. The bricks are made from clay dug from the same clay seam used since Tudor times. The wealth of experience amassed by the company

coupled with their respect for the process is what separates The Bulmer Brick and Tile Company from the competition.

Having produced bricks for reputable clients such as the National Trust, English Heritage and Historic Royal Palaces, the company is able to lend its services to both private and commercial developments. Its facings and specials can be made with almost any texture; with 150 different sizes of facings and a range of over 5,000 special shapes, including all standard plinths, squints and copings and extends to purpose made chimney bricks, terracotta, mullions, jambs, floor bricks, paviours, decorative plaques, garden edgings and a full range of rubbing blocks.

Aside from offering a wide range of clay brick solutions, The Bulmer Brick and Tile Company further offers a select number of additional materials. It is a stockist of



Singleton Birch Natural Hydraulic Limes and Lime Putty, available in a range of strengths – NHL2, NHL3.5, and NHL5 – and sold in 25kg bags or 1 tonne bulk bags. Lime has proven to be the material of choice when laying the brick specialist's bricks and especially in the case of conservation work, with its natural strength and tendency to give 'movement' in the construction process favourable.

Among the additional materials offered are lath, chestnut lath and riven oak supplied in bundles, used for plastering or for roofing and the application of shingles. Further, The Bulmer Brick and Tile Company offers sheep's wool insulation, an efficient and eco-friendly insulation solution.

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To complement the extensive ranges of timber buildings, MAC Cabins also offers a vast variety of other Timber Frame & Modular Frame options, providing one of the widest selections of timber building options, within the market-sector.

For all timber frame styles, MAC Cabins works with self-build and custom-build projects, where the initial design has already



been completed with architects. We help to guide small to medium-sized developers, on sites of 1-30 plots, to identify the best way to convert vision into reality.

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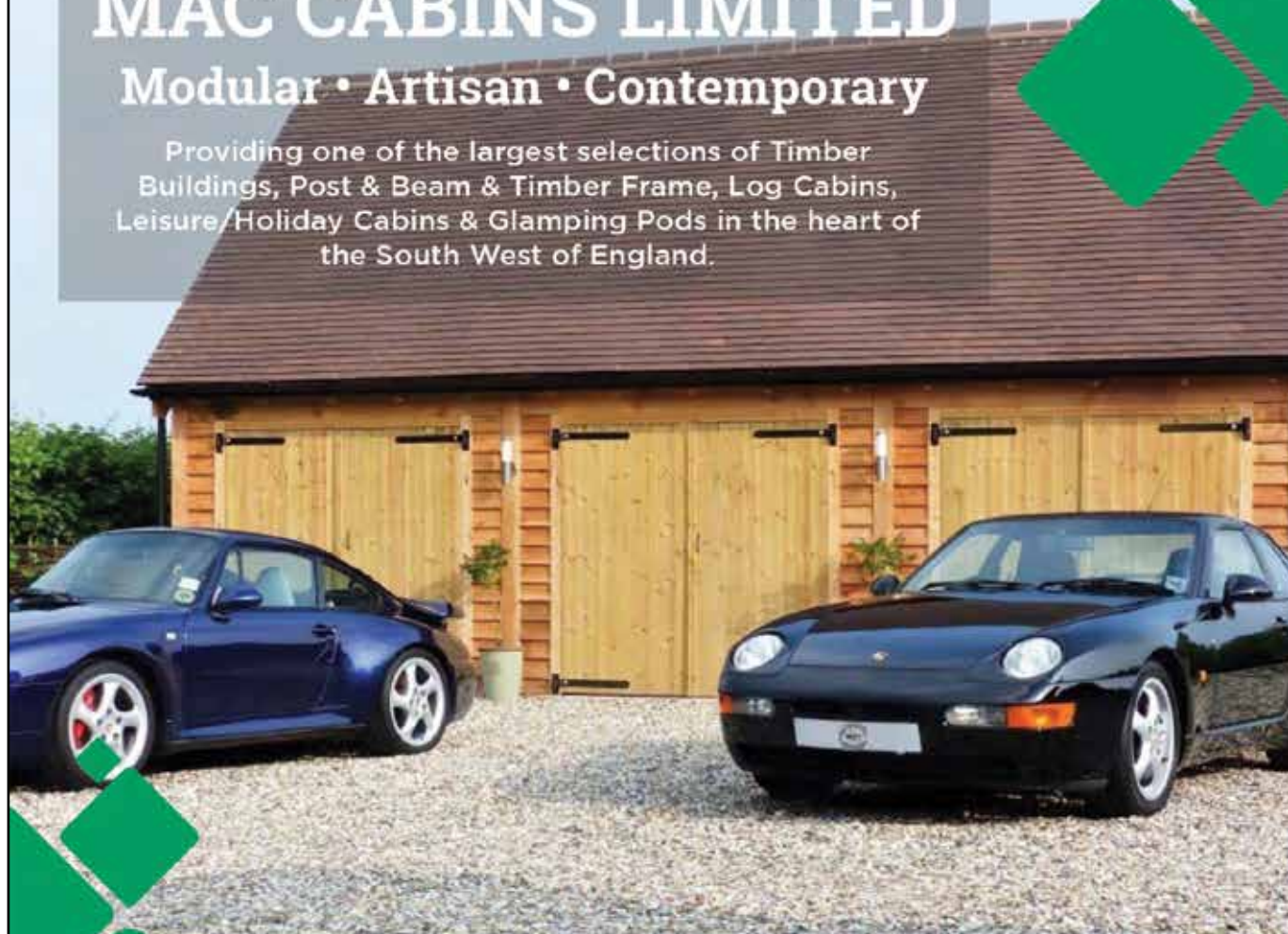
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MAC Cabins actively supports & promotes the use of Timber as the most environmentally sustainable material for the construction industry.

Door scheduling made easy, fast and error free



Established in 2002 by Derek Brown, RapidSpec is the first software developed for automatically creating door schedules, drawings, project estimates and bills of materials. Designed to eliminate errors in door set specification and the production of door schedules, RapidSpec is an industry leading software product proven to find any doorset's details from any customer and any project within 15 seconds.

"As software specialists for manufacturing processes, we have produced a software system for fire door manufacturing that not only improves productivity, ensures a faster turnaround and is proven to eliminate a greater number of errors, but also results in lower admin costs whilst producing a higher return on investment than other software systems on the market," stated Carol Cole, Business Consultant.



Robin Bell, Sales Manager at Rapid Spec

With RapidSpec everything is instant. Long gone are the days of spreadsheets, RapidSpec offers instant quotations that include all of the auto generated doorset drawings required. Simple to navigate, the operator uses multiple choice, yes and no questions together with the required dimensions and RapidSpec does the rest. The process is time efficient, cost effective and simple to use.

Manual data entry falls victim to human input error, which is both time consuming and frustrating for the employer and the employee. It not only impairs performance and efficiency but can result in higher operating costs and fluctuating levels of performance and continuity. With this in mind, RapidSpec offers two services: Fire Door Scheduling and Door Manufacturing Software.

Door Manufacturing Software allows manufacturers to produce detailed door schedules much more efficiently than traditional spreadsheets, calculators and catalogues. RapidSpec uses the existing skills of your estimator who will be able to create professional quotations immediately with just one hour of training. The orderly input of data ensures that nothing is left out and everything is checked. From the data input RapidSpec then automatically

creates a scaled, detailed, and dimensioned doorset drawing.

Ideal for manufacturers and fabricators of custom, standard interior and exterior doorsets, as well as architects, contractors and fire door manufacturers. "We have now introduced a barcode functionality and we are constantly updating and improving the software to create greater efficiencies for our clients," said Carol.

It is vital fire doors are designed and manufactured to the right specifications to ensure they have the correct

level of fire resistance. Fire Door Schedule is a door specifying and scheduling software from RapidSpec that allows door manufacturers and designers to quickly and simply create accurate fire door schedules from standard specification sheets. The simple process is designed so that the operator only needs to answer a few questions and input the dimensions of the door for the software to then produce an accurate fire door schedule complete with diagrams, dimensions, project estimates and bill of materials.

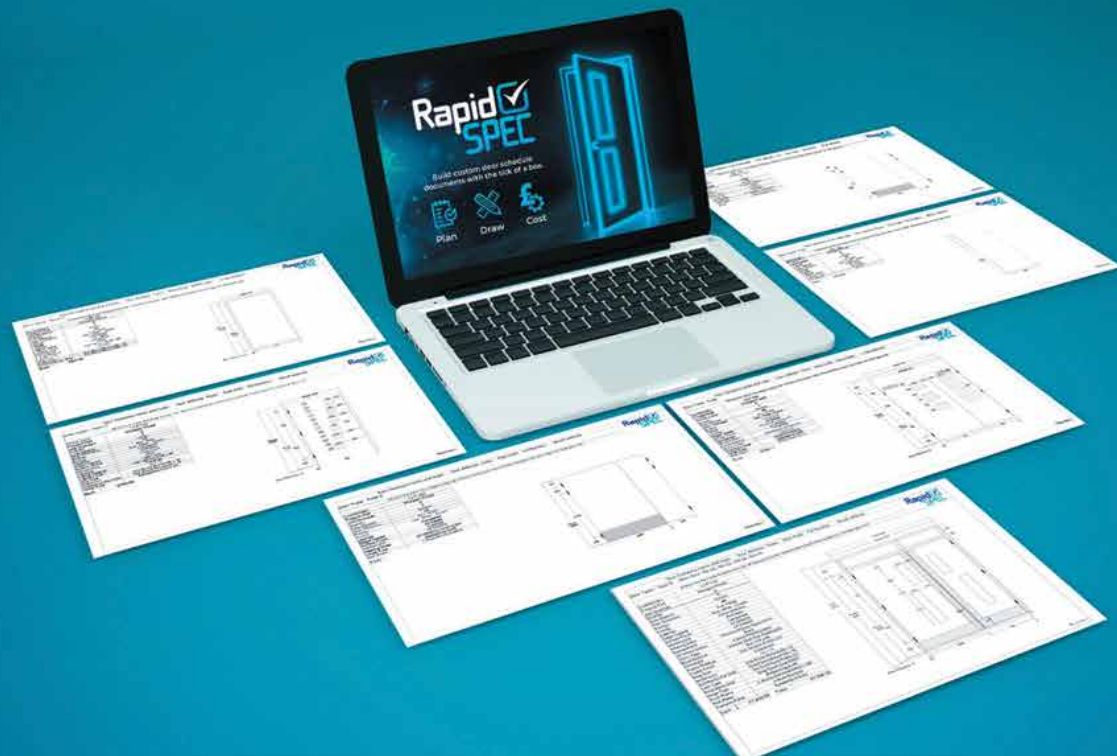
Over the years, RapidSpec been continuously developing its software to offer the best solutions to

its customers. Despite the pandemic, the company has achieved further growth and has big plans for the future. Robin Bell, Sales Manager at Rapid Spec commented, "We are expanding internationally, with a focus on the Commonwealth in the first instance. We have also just recorded a video highlighting the enormous benefits of using RapidSpec on our customers' productivity. This should be available on the website very soon."

T 03337 000017
robin@rapidspec.co.uk
www.rapidspec.co.uk



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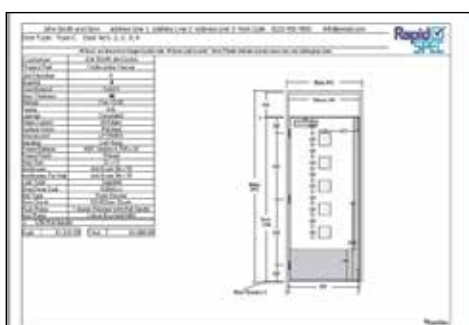
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The savings from RapidSpec's error free automatic bill of materials alone is normally enough to pay for the software.



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Vandecasteele Houtimport receives the Voka Charter Sustainable Entrepreneurship (VCDO) certificate for the 21st time in a row!

On Wednesday, the 29th of June, we attended the inspirational award ceremony of the Voka Charter for Sustainable Entrepreneurship.

The award is a recognition of the sustainability efforts of the participating companies.

We received our award for the 21st time, along

with 38 other West Flemish companies.

International reference

The VCDO is linked to the 17 Sustainable



L-R: Stefaan Vandecasteele – Owner, Geneviève Standaert – Export Manager, Isabelle Polfliet – Compliance Manager

Development Goals (SDGs) of the United Nations and thus has an international frame of reference.

The external validation and the structure of the VCDO support companies in making efforts to embed sustainability in their business strategy.

The balance of all sustainability aspects, ranging from the well-being of employees to the environmental impact of the company, is more relevant today than ever.

We are also nominated SDG Champion with our strategic transition project 'trading 100% certified wood by 2025.'

T +32 56 43 33 00
www.vandecasteele.be

Our goal is 100% certified timber from 2025

The Belgian fifth-generation family company, founded in 1883 Vandecasteele Houtimport still has to deal with old prejudices on the use of hardwood.

"Everyone knows that timber is a sustainable material," says Isabelle Polfliet, Compliance Manager at Vandecasteele, "A lot of users still associate tropical timber with the disappearance of the forests." Nevertheless, Vandecasteele Houtimport is fully committed to certified timber.

Sustainability and reliability are an essential part of Vandecasteele Houtimport's DNA. The company is determined to achieve the goal of trading only certified timber by 2025. Isabelle Polfliet: "As far as softwood is concerned, we are at 99%. The challenge, however, lies with the tropical hardwood and today we are at 66%!" Vandecasteele Houtimport has a clear vision: only certified timber has a future.

Digitalize

Last year, another important step was taken in the partnership with 11 Foundry and their product Fibertrace.

Vandecasteele has a long-term commitment to preserving the forests. The family business imports more than 125 different types of wood from 40 countries and has 105,000 cubic meters in stock, mainly certified hard and soft woods.

Preservation of the forest

In a well-managed forest, only mature trees are harvested, which amounts to one to three trees per hectare. After that, felling will not take place for at least 25 years. In this way the forest is preserved for the future. Mother trees, trees with bee nests and the like are of course not harvested.

Positive evolution

Isabelle Polfliet notes that a positive evolution is noticeable in consumer purchasing behaviour. Customers are increasingly asking questions about certification and the origin of the timber. Buyers are becoming increasingly aware of the need to use certified timber.

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The Bulmer Brick & Tile Co Ltd



Bulmer bricks are made from the finest London Clays, dug from our seams almost continually since Tudor times. All Bulmer bricks are hand made, using traditional methods of making, drying and are fired in a coal burning, down draught kiln. This helps to give the distinctive finish that blends so well with the originals. The process takes time – something to consider at the project planning stage.

We are a small family business continuing the traditions of brickmaking on this site dating back to the Middle Ages. Our facings and specials can be made with almost any texture, from coarse veined to smooth with some 150 different sizes of facing and a range of over 5,000 special shapes, including all standard plinths, squints and copings, and extends to purpose made chimney bricks, terracotta, mullions, jambs, floor bricks, pammments, decorative plaques, garden edgings and a full range of rubbing blocks.

We work on large projects for the National Trust, English Heritage and Historic Royal Palaces, but are just as proud of some of the small private work undertaken by individuals.

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E-learning for the construction industry



Over the past 12 months, online learning and training have become increasingly more popular as individuals and businesses seek ways to upskill, develop or specialise in key subjects for self-improvement.

The four-stage training and qualifications scheme Concrete Technology & Construction leads to qualifications for the construction industry awarded by the Institute of Concrete Technology (ICT). The training courses range from foundation level through to advanced, and TALENT Concrete Training Ltd., established in 2004, currently provide online distance learning courses in Stages 2 and 3.

The industry-endorsed four-stage qualification framework is directly linked to the professional grades of membership of the ICT, formerly administered by City & Guilds of London Institute (CGLI).



The course outlines are as follows:

Stage 1: Concrete Practice, ideal for those starting in the construction industry. Candidates who complete this course successfully are eligible for memberships of the ICT at Technician grade and to use the designatory letters TechICT after their name.

Stage 2: General Principles, intended for those involved in the production, use or quality control of concrete. Candidates who complete this course successfully are eligible for memberships of the ICT at Affiliate grade and to use the designatory letters AffICT after their name.

Stage 3: Practical Applications, intended for those involved at a supervisory level in the production, use or quality control activities associated with concrete. Candidates who complete this course successfully are eligible for memberships of the ICT at Associate grade and to use the designatory letters AMICT after their name.

Stage 4: Advanced Concrete Technology, this stage leads to the highest award in concrete technology. Candidates who complete this course successfully are eligible for full corporate memberships of the ICT and to use the designatory letters MICT after their name.

Tony Binns, a Director of TALENT, and an honorary Fellow of the ICT commented, "TALENT courses enable participants to enrol and commence their studies at any time, with no dependence on the academic year. We have three fully qualified tutors who are constantly available for assistance, mentoring and discussion."

Stages 2 and 3 of the Concrete Technology & Construction training and qualifications programme are presented by TALENT as online distance learning courses. The course content has been written and designed by John Newman, Peter Domone and Tony Binns. Each tutor is successful in their own field and holds vast amounts of experience and expertise in concrete technology, as well as proven, successful techniques and skills acquired to mentor and teach.

"TALENT courses are well-established and recognised by the ICT. Revised and newly introduced ICT learning objectives are incorporated in the course material. In the future, we intend to introduce the foundation level – Stage 1: Concrete Practice, as an online course using the same successful online training methods as we have in Stages 2 and 3. The course material is updated to reflect developments in techniques and changes in British and European Standards and remains accessible to participants long after they have completed the course, serving as an up-to-date reference source," stated Tony.

The courses available are ideal for all producers of precast and ready-mixed concrete, test consultants, civil engineers and building contractors. TALENT training courses fully prepare participants for ICT examinations and have achieved a successful high pass rate, including a high proportion of Credits and Distinctions upon completion.

COVID-19 has had minimal effects on business for TALENT, and the concept of being entirely online has reaped tremendous benefits for the company. "Being entirely online involving no physical personal contact, TALENT courses have enabled those who seek training

and qualifications to enrol and progress without any adverse effects from COVID-19," said Tony.

Enrol today to receive in-depth and up-to-date information on constituent materials, specification,

concrete properties, production and performance.

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Your partner for material handling

Davison Forklift was established by John Davison back in the mid-sixties, and was sold to Malcolm Harrison in 2018. Based in Shifnal, Shropshire the company maintains a rich history and has grown significantly since its inception, seeing impressive growth year on year.

"We are a machinery hire company specialising in the hire of forklifts, tractors and telehandlers. We sell, repair and hire the aforementioned machines. We are also dealers for Clark, who invented the forklift in the early 20th century. We take pride in providing a very personal service, which is second to none," said Adrian. Throughout the years, Davison Forklift has explored new sectors and moved its focus into the hire and sales of new product ranges. By consistently expanding upon its product range, has enabled Davison Forklift to be able to discover and move into new sectors and enter higher markets, developing a broader customer



base. Davison Forklift has positioned itself firmly at the forefront of the material handling sector, offering a broad range of products, complemented by a highly skilled team of trained forklift engineers that carry out on-site repairs, servicing and health checks. The company specialises in the hire and sales of forklift trucks and is the authorised UK dealers for Clark, Haulotte and AUSA. In addition, Davison Forklift is also part stockists for Clark, Hyster, Samsung, Doosan, Linde, Lansing, AUSA and many more.

In terms of recent developments, Davison Forklift

has seen a recent relocation, moving to a new rural location in Yew Tree Lane in Shifnal, Shropshire. This move has helped the company explore new markets and helped to facilitate an investment into new equipment. As such, Davison Forklift has turned its attention to the hire and sale of tractors and telehandlers.

Included in its telehandlers range, the company offers two telehandlers; JCB 540-140 and JCB 535-125. Through JCB's commitment to providing outstanding products for its customers, the brand has flourished, growing from a one-



man business into Britain's largest privately owned manufacturer of telescopic telehandlers and industrial forklifts. Both the JCB 540-140 and JCB 535-125 models are equipped with the latest technology and advanced design capabilities, with features such as: low fuel consumption, reduced noise, high torque and power output, total reliability and minimal maintenance.

Regarding its tractor range, the company currently offers one tractor manufacturer available for hire; the New Holland T7.210. New Holland is renowned as a Clean Energy Leader for its active promotion and development of sustainable agricultural technology, offering solutions that enhance efficiency and productivity, while respecting the environment. The T7.210 is a great addition to the company's range and offers a power range of 140 to 210 HP, with a rated engine speed of 2,200rpm.

If you would like to find out any further information on the company, please see the details featured below:
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Number one choice for recycled plastic building materials

Kedel is a family business founded on ethical and ecologically sound principles. Dedicated to making sustainable living attractive, Kedel believe that by incorporating sustainable recycled plastic products into personal and working environments, it can create a happier, healthier and infinitely more sustainable future for generations to come.

Established by three brothers, Kieran, Dermot and Lewis Walch, Kedel is based in Burnley and supplies nationwide. We spoke to Lewis, who explained more about the company. "We manufacture plastic wood made from waste polystyrene, and we are also suppliers of many other types of recycled plastic profiles from other manufacturers. We stock tongue and groove boards, plastic sheet materials, decking, cladding, ground reinforcement and drainage grids, fencing and gates. In addition, we make a wide range of outdoor furniture often combining different types of recycled plastic into one product. These products

include benches, tables, picnic tables, notice boards, to name just a few. We also offer design services and have a large flatbed CNC (computer numerical controlled) machine for cutting and shaping to the CAD design parameters supplied by our customers or created for them by our in-house design team."

As specialists in building supplies and outdoor furniture, one of the main benefits of the products and services provided by Kedel is the long-term investment advantages of recycled plastic. "It never rots, so if you build fencing or decking with it, you only do the job once in a lifetime. There's no cost of ownership, no maintenance - no costs for labour and materials, or for that matter, replacement costs.

Timber merchants are our main competitors, but wood is becoming increasingly expensive and difficult to source, due to the war in Eastern Europe, Brexit, and COVID-19 causing driver shortages leading to increased transportation costs.

And as everyone knows, the problem with wood is that it needs constant attention to avoid deterioration. Recycled plastic needs nothing more doing with it. Yes, the initial costs are higher, but over a 25-year period, a study by WRAP (Waste Resources Action Programme), in 2000 resulted in recycled plastic proving a more cost-effective material due to the product's extended longevity and zero maintenance properties," Lewis explained.

'Your Housing Association' in South Manchester installed plastic fence panels made from Kedel's recycled plastic about 10 years ago. They haven't had

to replace a single fence panel since!" said Lewis.

Kedel's plastic wood was named 'Best Recycled Product' at the National Recycling Awards in 2015 and is an ideal maintenance free replacement for wood and other traditional building materials. Suitable applications include cladding, gables brackets, pediments, fascia boards, rafter tails, finials, fencing and decking. Kedel has over 1,000 products in recycled plastics available on its website with a wide variety of profiles to choose from that could save you a lifetime of maintenance and replacement costs.

A notable product in Kedel's sustainable product range is fencing, that comes as fixed or portable panels, or you can buy the materials to make your own. You'll never need to replace a fence again. They are rot-proof and non-absorbent making them very hygienic and easy to clean. They don't chip, crack, or splinter, and are water and frost proof.

Ideal for education establishments and facilities management are Kedel's maintenance-free benches and picnic tables. They look like wood but perform like plastic, and the tables last at least five times longer than wood, making them a very attractive long-term investment. Key advantages include no splinters for little fingers, more hygienic and easier to clean with



standard household cleaning products, no painting or preservative applications, and they are very robust and vandal resistant.

"Recycled plastic products are carbon positive, because the waste plastic is reused rather than being thrown into landfill or used as EfW (energy from waste) i.e. burned like any other fossil fuel. They also reduce the use of traditional materials such as wood, leaving the trees in our precious forests where they belong, absorbing the CO₂ emitted by fossil fuels, and concrete whose production is highly polluting and makes the building industry a major contributor to global warming," said Lewis.

Since 2010, demand for Kedel's products have risen by about 30% each year. To accommodate such growth, Kedel has recently acquired additional computer controlled plastic extrusion lines to increase production of its plastic wood. We asked Lewis what Kedel's future plans are, "We plan on continuing to increase production and expand our buildings to house the additional machinery we need to meet this seemingly insatiable demand for recycled plastic products."

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DIRECT HOIST GOES GREEN

Direct Hoist specialises in hire and sales of construction hoists, and is leading the field in environmental awareness

Environmental awareness isn't something you'd normally associate with the construction sector. Indeed, it's reckoned that a third of the UK's entire carbon emissions comes from the built environment.

Regardless of your views on climate change, it's impossible to ignore the impact of construction on the natural world. From plants and wildlife to noise and pollution, there's not an element on the planet that isn't affected by development projects.

So it's vital that the industry creates and maintains a sustainable outline for the future. And it's essential for our own survival - on an environmental and a financial scale - that we play our part in the battle to cut emissions.

Direct Hoist, an ever-expanding construction hoist hire and sales specialist, is rising to the top as a market leader in going green. Company founder Rob Wilson says, "Due to the Government's intention to drastically reduce the UK's emissions - especially from motor vehicles and businesses - Direct Hoist is moving forward with demands for companies to decrease their carbon footprint down to zero emissions."

Rob's approach is to take a fresh look at Direct Hoist's operations with an environmental eye. The basics were covered easily: long-life, low-energy LED lighting was fitted to the firm's premises

to replace inefficient equipment; recycling is rigorously monitored and separated to minimise general waste; scrap materials are saved up and weighed in.

Direct Hoist has slashed stationery usage, implementing paper-free hand-overs via phone apps, and is rapidly moving towards paperless offices. Sustainability passes down the chain, so Direct Hoist favours suppliers that are either local (to cut transportation) or offer green credentials.

Direct Hoist already runs its fleet of diesel-powered vans on HVO (hydrotreated vegetable oil) fuel, which is 100 per cent renewable (BS EN 15940 standard), offers a 90 per cent reduction in CO₂, and can be stored for extensive periods in a tank on-site - meaning Direct Hoist's drivers don't need to divert to fuel stations, making each trip more economical.

Rob says, "Electric vans don't yet offer the range we need, so HVO is a good alternative. Compared with white or red diesel, HVO fuels have benefits to health and the environment. Air pollution is drastically reduced, and

it's much safer if there's an accidental spillage - HVO biodegrades quickly, whereas regular diesel will remain slippery and harmful to the ecosystem for years."

Direct Hoist's switch away from fossil fuels includes a hire fleet of generators that will run on HVO when powering hoists on sites without connection to mains electricity.

Of course, Direct Hoist has for years supplied electrically-powered construction hoists instead of old-fashioned engine-driven devices. Rob says, "They use a 110-, 240- or 415-volt supply, depending on the lifting capacity and size of the hoist platform required, so there are no carbon (CO₂), nitrogen oxide (NO_x) or carbon monoxide (CO) emissions here."

Direct Hoist is also investing in lithium-ion battery-powered lifts, which can carry 120kg up to heights of 10m, controlled wirelessly by a smart-phone app. They're ideal for transportation and installation of solar panels.

Most importantly, the inclusion of a hoist on any construction site has an added environmental benefit due to its manpower-saving efficiency. Construction hoists dramatically reduce project timescales - the speed and ability of a lifting platform to take tools and materials up

multiple storeys can knock weeks off a large scheme - thereby minimising workers' journeys to and from site.

"We're on target to reach net zero greenhouse gas emissions long before the Government's policy," says Rob. "Direct Hoist is committed to going green, and we're taking a direct route towards sustainability." ■

■ For more information, visit: www.directhoist.co.uk

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The power of thoughtful design

Southside Waterjet is a fabrication company that delivers a bespoke design and manufacturing service like no other. Combining new perspectives with innovative design, Southside Waterjet is at the leading edge of material CAD technology, offering unparalleled precision with endless creative possibilities.



Surface profiling can also be useful when it comes to abrasive blasting as it is used to smooth a rough surface or roughen a smooth surface. Abrasive blasting is commonly used by the in-house team to create decorative embossing and as a lasting branding solution. Or for an alternative finish, with stone now being the most popular choice for worktops and flooring, Stone Polishing can be applied, and because of its durability and longevity the polished finish is inherently high-end and is often referred to as the height of luxury.

For more information, please see below:
T 02032 212133
www.southsidewaterjet.com

Lending its services to decisive and visionary clients who are ready to cut through in their industry, Southside Waterjet provides all the technical support and technical solutions to ensure your project is effortlessly completed to perfection.

Founded in 2012 by Peter Noyce and Scott Faulks, Southside Waterjet is a family friend run fabrication company located on the South side of the river Thames in London. Delivering exceptional design and meticulous attention to detail, Southside Waterjet has built a reputation of being industry leaders based on its quality, reliability and fresh approach. Boasted as the number one choice for architects, interior designers, contractors, and customers across the UK, the company is made up of a small team of professionals who have decades of experiences in custom fabrication techniques ensuring quality is never compromised.

Its services are available to customers for residential projects, so whether you're looking for an island that will take centre stage in your kitchen, or to add that certain wow factor to your living room, each requirement can be specifically met to every customer's wishes. No matter what your design, Southside Waterjet will get on board to make that dream a reality. Looking for inspiration? Just some of the company's recent projects have included customised flooring and wall coverings, luxurious workshops and splash backs, bathrooms, wet rooms and vanities, bespoke furniture and artwork, outdoor kitchens and much more.

Furthermore, the company has successfully won contracts with large numbers of contractors, architects, designers, and stone and tile distributors for a number of different commercial projects. "We can provide commercial cutting for tile and stone distributors and contractors, as well as fabricating material to their exacting requirements creating architectural solutions, bespoke and customised wall, floor and staircase designs, furniture trends and even swimming pool solutions. We also have the capabilities to produce branding for our commercial customers in the form of signage, fit-out solutions for retail, leisure and hospitality sectors," said Peter.

Changing a concept into reality is what Southside Waterjet do. No matter what the requirements may be, the company will experiment with new ways to inspire and deliver that 'wow' moment. Each member of the team is expertly trained in CAD-3D rendered and technical drawings which enables a clear visualisation of your project, allowing you, the customer to make as many changes as needed. The company also utilises the use of digital templating, which is the most accurate, reliable and efficient templating solution when it comes to measuring and fabricating stair coverings, as well as allowing for a complete finalised template of kitchen worktops and splashbacks. In order to eliminate any uncertainty before installation, measurements are reviewed, changed on-site and exported as ready to use production files for the CNC waterjet machines. Also by using digital slab creation, everything is possible as it allows the team to transform an ordinary picture of a slab in the correct and realistic representation. This is particularly useful when the intention to use the slab for a vein or book matching in creating waterfall worktops continues down the sides of cabinetry or as a feature wall covering.

The company's fabrication service enables its highly skilled team to seamlessly transform any idea into a one-of-a-kind project. At the leading edge of CAD technology, precision CNC waterjet cutting enables the craft of raw materials into high-quality design solutions with unparalleled precision and endless creative possibilities. To support this, edge profiling is all about adding visual detail to your project. Southside Waterjet can design three edge profiles; Mitred, Bevelled, and Semi Bull Nose. Some examples of how edge profiling can be applied by the company include:

- **KITCHENS:** Whether you have opted for a contemporary or traditional kitchen the edging profile of your worktop should complement the finished outcome.
- **SWIMMING POOLS:** Anti-slip grooves and finger grips can be cut into tiles surrounding swimming pools, with pool side grating fabricated from the same material to seamlessly carry away standing water from the pool's edge.
- **STEP TREADS AND STAIRCASES:** In high traffic areas of commercial and retail environments anti-slip features can be added to stair treads or for a higher end look finished with metal inserts in a metal of your choice.

Southside waterjet.

CUTTING EDGE SOLUTIONS

At the leading edge of CAD technology. Southside Waterjet craft raw materials into high-quality design solutions with unparalleled precision and endless creative possibilities. A service that leads itself to decisive and visionary clients who are ready to cut through in their industry.

Let our skilled team seamlessly transform your ideas into a one of a kind project.

PHONE (02032) 21233
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Increased productivity with collaborative application



Oкура Kogyo is a Japanese manufacturer of logistic equipment and systems. Their offering includes design, manufacturing, installation and maintenance of conveyors and conveying systems.

The Challenge

At Okura Kogyo, the staff would manually load and unload workpieces (rollers) from the processors to trolley. The manual process needs to be done carefully to avoid damaging the workpiece. Like other manufacturers globally, the company is also facing labor shortages. As such, the company was looking for a way to optimize their current resources and to increase productivity and efficiency.

"To survive and thrive in an uncertain and rapidly changing world, we need to innovate at speed and to keep pace with technology and industry change," says Takashi Totogawa, Director of Okura Kogyo.



The Solution

Collaborative application is a clear choice for Okura Kogyo.

Combining OnRobot VGC10 gripper and Omron cobot, the manual processes of loading and unloading workpieces are fully automated.

The VGC10 gripper has a customized fixture with 4 suction cups and is programmed to handle 2 rollers at a time to match the production cycle. With unlimited customization to fit various needs, the compact, lightweight VGC10 gripper is perfect for tight space and is able to lift small, odd-shaped, and heavy objects even with a smaller robot arm.



The collaborative application is installed on a mobile container, which can be moved and plugged in anywhere, anytime. It does not require big footprint and it is able to work safely alongside employees; no safety fence is needed.

"Setting up collaborative application was fairly quick, we only took 3 days for the complete deployment," says Mr. Hiroki Kuribayashi, Sales Manager.

The Benefit

Employees of Okura Kogyo now do not have to perform strenuous, repetitive work on the machine. They no longer need to be stationed at the machine for hours and they are able to focus on higher value duties. Collaborative application has helped Okura Kogyo achieve an ROI of 11% while maintaining work safety and high quality output.



About Okura Kogyo

Established in 1964 in Kakogawa City, Okura Kogyo is Japanese manufacturers of logistic equipment and systems. The company has around 139 employees in Japan.

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Click the video on the case study page:
<https://onrobot.com/en/increased-productivity-with-collaborative-application>



Quality hinges since 1790



Gold & Wassall Hinges has established itself at the forefront of the industry since its inception over 200 years ago. With its manufacturing facilities situated in Tamworth in Staffordshire, Gold & Wassall Hinges provides an impressive range of services for design, production and manufacture of hinges, all produced in house and distributed throughout the whole of the UK. Boasting an enviable reputation within the industry, Gold & Wassall Hinges has positioned itself firmly as the UK's number one manufacturer of hinges.

ensures it maintains complete control over the design and high quality of its goods.

Customer service is an integral focus for Gold & Wassall Hinges and the company ensures it provides a first class turnkey service, from initial enquiry to delivery and aftersales care. With a team of expert sales reps, Gold & Wassall Hinges is well equipped in providing a personal service to fulfil the needs of each and every customer. Its



able to make hinges quicker and to almost any length. The company also maintains the specialist tooling for these machines which can complete multiple operations in each press.

Gold & Wassall Hinges is the only hinge company whose hinges are UK made and all of Gold & Wassall Hinges' stock is available for immediate dispatch.



In keeping with the company's goal of providing unrivalled customer service, Gold and Wassall Hinges also provides an abundance of finishing options for its customers. The company is dedicated to providing not only durable, high quality hinges, Gold & Wassall Hinges understands the importance of an aesthetically pleasing, customised design. Able to customise colour, add branding and create a smooth premium finish, Gold & Wassall Hinges' array of finishing options are the perfect complement for its hinges and create a smooth premium finished look.

Providing a full service comprised of a comprehensive design and manufacturing service, the company offers a wide range of hinges from continuous/piano hinges, butt and backflap hinges and standard, to heavy duty and bespoke made to order hinges. Using the company's automatic section which contains eight lines of automated machines, Gold & Wassall Hinges is

Gold & Wassall Hinges understands that some projects will require a custom built solution. To aid its customers with custom built requirements, Gold & Wassall Hinges provides a bespoke design and manufacturing service. This service enables the company to be able to create virtually any hinge requirement, facilitating the company to be able to develop both complex designs and simple designs, requiring small alterations.

The company has demonstrated its wealth of expertise and consistency in exceeding expectations. Its sheer magnitude of industry leading expertise echoes throughout Gold & Wassall Hinges' services, which has enabled the company to continue its operations throughout the COVID-19 pandemic, and beyond.

For more information, please see the details below:
T 01827 63391
www.goldwassallhinges.co.uk



Gold & Wassall Hinges has provided its services to various customers throughout its years in operation and serviced customers from construction to engineering companies. With a proven track record of quality, reliability and durability, Gold & Wassall Hinges

sales reps engage on a personal basis and get to the customer's requirements upon placing an order, advising on and handling everything from measurements, style to fitting; the company is dedicated to finding the right door hinge solution for its customer.



PS MONOGRAMS




PS Monograms is based on Beer Road Seaton. Run by Dave and Mike, supplying polo shirts, fleece wear, T shirts, hoodies as well as and in addition to hi-vis safety clothing. In fact if you can wear it they can probably source it. Most garments can be personalised with club or individual logo's which can be embroidered or printed. There are no minimum orders.

Prices based on the size and stitch count of logo's and quality of the garments chosen.

All clothing is sourced at reasonable prices from a variety of suppliers, or if you wish can be supplied by you. Please call in, email or phone to discuss your requirements as we are only too happy quote.

Please visit www.psmonograms.co.uk

Contact us on 01297 625050 or email us at mike@psmonograms.co.uk

Deep-Hole drilling automation is more than part load/unload

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Photos: UNISIG



For deep-hole drilling, part handling might be the most visible automation element, but it's not necessarily the most impactful. Often, it's internal process automation that yields the most significant results even with a manually loaded drilling machine.

When it comes to automating deep-hole drilling, there are challenges unique to the process itself. These include fixturing complexities – where maintaining alignment requires elements such as guide bushings and tool supports not present in a conventional lathe or milling machine – and part attributes such as length and weight.

Long parts mean a long drilling cycle time, and maintaining production rates often requires multi-spindle, deep-hole drilling systems. Unfortunately, stopping a two or four-spindle machine means two or four spindles sit idle until the parts are loaded and unloaded. So in these instances, the more parts in the machine at one time, the more automation can actually inhibit cycle time while the machine is running.

Solving this problem in multi-spindle machines requires internal automation to achieve the objectives of lean manufacturing and one-piece flow. In-machine loaders singulate processes so that even within a small four-piece batch you maintain one-piece flow. The operator or automation device puts in a part and takes a part out and the machine does a bit of maneuvering inside to sequence those four parts in such a way as to minimize spindle downtime while maintaining upstream and downstream processes for one-piece flow. For instance, parts could be loaded onto a smart conveyor, indexed, and lifted into chucks for the drilling cycle before robotic unloading on the out-feed side so that there are no bottlenecks to a steady production flow.

Tool life management is another form of internal automation. Getting feedback to the machine enables



the deep-hole drilling process to adapt or halt, if necessary, before tools and parts are damaged.

Tool life management is built into a machine's control, and the machine senses torque thrust and coolant. Chip condition is usually the first indicator of wear, which would otherwise require an operator present to detect, so the machine actually monitors the process and can predict tools starting to wear and identify when they need to be changed. A tool life management system also can count distances drilled and the number of cycles then prompt a tool change at the appropriate time.

That kind of in-machine automation smooths the path for external automation. As the process builds, highly standardized options for robot-ready machines such as an automatic door, workpiece-present sensors and programmable workpiece fixturing makes it easier to add a robot at a later date. These robot-ready machines also create efficiencies before they are fully

automated. Even with manual loading, the automatic doors and programmable clamping make the process more efficient.

In UNISIG's experience, an embedded reamer tool changer enables manufacturers to manage significant throughput increases, even with an operator. With this technology, operators can maintain the pace of production loading the machine, while eliminating the task of inserting reaming tools for each cycle. This allows the operator to redirect efforts towards tasks such as additional quality checks and off-machine setups.

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

Please see our Youtube videos: <https://www.youtube.com/user/UNISIG>

