

INDUSTRIAL SOLUTIONS UK

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Schmersal

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CAMB Machine Knives

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Tubosider

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Gold & Wassall

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New hydraulic DesignSoftware for HAURATON surface drainage systems

HAURATON's new web-based application 'DesignSoftware' provides construction industry professionals with quick, simple hydraulic analysis, channel sizing, project design and product specification for the company's range of surface drainage systems (for landscape, commercial and civils projects) whilst working on their own desk-top computers, laptops and tablets.

Immediate access for registration and use of this new hydraulic design software is achieved through the link: <https://hydraulicdesign.hauraton.com>

User-friendly and free-of-charge, HAURATON 'DesignSoftware' provides engineers with the flexibility to create their own drainage designs and project specifications, with just three clicks to a hydraulic calculation.

HAURATON has used their 'in-house' hydraulic design software to create project designs for over 30 years with total reliability. In addition to this new software application, HAURATON offers a comprehensive design service, which is also free of charge.

Further information is available at: www.hauraton.co.uk or by phoning 01582 501380.

<https://hydraulicdesign.hauraton.com>

HAURATON DesignSoftware – Features & Functions

- User-friendly, intuitive interface with quick, clear, simple steps to final calculations.
- Hydraulic calculations based on widely used 'Modified-Manning-Strickler' formula. Hydraulic discharge provided on a free outflow basis.
- Accommodates HAURATON's core range of linear drainage systems for total design flexibility (for landscape, commercial, civils and other project types). Includes all channel types and depths available.
- Rainfall intensity options in mm/h, l/s*Ha and l/s*m².
- UK Software: UK Rainfall Map using data from 'Flood Studies Report'. User options for Return Period, Storm Duration and Climate Change.
- Automatic and manual channel run design functions.
- Constant-depth and step-fall channel configuration options.
- Accommodates both 0% and positive longitudinal ground slopes.
- Detailed hydraulic analysis of channel run designs.
- Controlled discharge function for HICAP® Slot Channel designs.
- Quick user tools for adding/duplicating runs, resetting designs, adding notes etc.
- 'Drag & Drop' function for adding Point Inflows to the

channel run design.

- Tributary channels can be linked to the main channel run being designed.
- 'Drag & Drop' function for adding system Accessories to the channel run design.
- Comprehensive product library for 'one-stop' specification data. HAURATON website links for additional product information.
- HELP file and tool-tips for detailed design guidance and advice.
- Project folder for registered users offering safe and secure server storage of final designs. Option to export design files for external storage.
- Automatic generation of .pdf project documents for specification support. Hydraulic Analysis, Materials List and Information datasheets available.



Design Reassurance

DesignSoftware has been tested extensively and the methodology validated by an independent hydraulics consultancy company. HAURATON's 'in-house' hydraulic design software has been used successfully by their own technical personnel for over 30 years with total reliability.

Confidential

Registered users (password protected) have access to safe and secure server storage regarding their final designs. Designs remain strictly confidential unless users tick to 'share with HAURATON'.

Registered users have the option to export design files for external storage in their own computers or for sharing with colleagues for further design or discussion. DesignSoftware has been configured to comply fully with GDPR 'data privacy' regulations.

Experience & Expertise

A world leader in the manufacture of modular surface drainage systems, HAURATON drainage products have been supplied onto major projects within the UK and international markets for over sixty-five years. HAURATON developed their first linear drainage system in 1956.

Since that time the HAURATON brand has become known around the world as a benchmark for quality, reliability, durability and service.

www.drainage-projects.co.uk

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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 649 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 Schmersal.

Firstly, we would like to focus on the accomplishments Hauraton who this month features on our front cover!

Secondly, we are featuring Gold & Wassall with the 'Solutions Recommends' profile following their impressive performance over the years. For more information, turn to page 13.

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

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Print & Packaging News

O&PM Europa Puts the Power of Precoating in the Customer's Hands

Netherlands-based O&PM Europa aims to disrupt the water-based digital inkjet print primers and precoatings space by putting the power into the hands of its customers and providing bespoke, flexible, and end-to-end solutions. Not only will this innovative approach benefit customers by allowing them to manage the application of precoatings themselves, offering greater ink and substrate flexibility, cost savings, and significantly reduced lead times, but it will also serve as a catalyst for developments in the water-based inkjet print market. "Until now, there was no machine or precoating available which facilitated application by the customer themselves," explains Sales Director at O&PM Europa Dursun Acun. "The market so far has been dominated by the few, which ultimately slows down advancement."

With a heavy focus on research and development, the experimentation has paid off with a number of successful testing rounds measuring absorption, adhesion, water resistance, scratch resistance, application, appearance, drying, colour gamut, and behaviour on substrates, and demonstrating unmatched flexibility and outstanding quality. When it comes to the perfect precoating for a specific application, there is no 'one size fits all solution', which is why O&PM Europa has been dedicated to formulating with a range of ingredients and substrates. With eight standard formulations now available, the business has the expertise and skill to formulate upon request based on a customer's specific requirements.



Empowering customers to take ownership of the precoating process doesn't stop with the formulations themselves. O&PM Europa's offering involves a total concept, which includes formulating and supply of the precoatings, the coatings system itself, and a printing system from O&PM's partner, Italian printing and finishing equipment manufacturer, Rigoli s.r.l. "Any company that wants to print on cardboard, flexible films, or packaging can come to O&PM Europa and find everything they need," concludes Acun.






Contact
T +31 85 018 56 92
da@oenpm-europa.com
www.oenpm-europa.com



O&PM Europa is breathing new life into precoating and primer solutions for digital print.

With many years of R&D under our belt, we are delivering a total concept solution which includes the formulation and supply of outstanding quality precoatings, the coatings system, and even the printing system itself.

Our flexible solutions put the power of coating in your hands!

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-  Strong performance on synthetic substrates
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-  Compatible with techniques including flexo, rotogravure, Meyer rod and slot-die



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Reusable thermal packaging



solutions, for airfreight and road transport, supporting the cold chain for perishables, and pharmaceuticals markets.

Our customer feedback is excellent! All Polar Thermal products are reusable, with every square meter of insulation, produced from over 600 plastic bottles, with multiple uses, which makes for a cost-effective solution, alongside being extremely environmentally friendly, stated Paul Harrison, Managing Director & Head of Design.

Polar Thermal Packaging Ltd has developed its Polar-Pod™ system, in conjunction with Gist International, to safely ship perishable, chilled and frozen produce by road and air, providing a controlled environment in varying ambient temperatures.

The range was developed, to reflect customer demand for a single use modular system, that provides excellent performance. Combining a plethora of technologies in three categories; Deep Frozen: -18°C to -14°C, Chilled: +2°C to +8°C and Ambient: +15°C to +25°C.



Available in three sizes, 1500 x 1200 x 1000 (1.5 m3 internal capacity), 800 x 1200 x 1000 (1 m3 internal capacity) and 400 x 1200 x 1000 (1/2 m3 internal capacity). The Polar Pod, complete with the appropriate coolant packs, will deliver fantastic results over 30, 48 and 72 hours.

"The Polar Dot-Box™ system is produced from EPP, which is 100% recyclable polypropylene material. When no longer serviceable, Polar will shred and recycle the system to produce a new one, explained Paul, The Polar Dot-Box™ is a lightweight thermal liner, that fits snugly

into a standard Euro 44 Litre tote, reducing or eliminating the need for refrigeration in vehicles. It's space saving when stowed flat, allowing the plastic crates to be nested, The Polar Dot-Box™ delivery system, is perfect for chilled, fresh or frozen goods.

In light of the recent COVID-19 pandemic, Polar Thermal Packaging Ltd, has been busy supplying vaccine carry bags as part of its vaccine transport range, which come available in various sizes, 10, 20 and 30 Litre carry bags. These are ideal for vaccination programs, lasting up to twelve hours plus.

The specially designed inner lid, reduces thermal loss, whilst helping to maintain temperature, despite repeated opening of the bag.

Developed using NASA technology, Polartherm™ is made up of a reflective inner layer, with a hollow fibre insulation material, with a waterproof woven PVC outer, producing a unique product, that is both tough and lightweight, with excellent thermal control properties.

Another product development, which came from a public-sector requirement, was the Performance Roll Cage. The product is lightweight, sturdy, durable and was developed alongside a leading public-sector procurement organisation, to safely deliver frozen, chilled and perishable produce, over multiple drops.

Available with a two-year warranty, utilizing the appropriate cool packs, to deliver faultless results over 30, 48 and 72 hours.

For the immediate future, Polar Thermal Packaging Ltd, is constantly looking to improve and expand on its already successful product range, using its client's feedback, to innovative new product designs.

With a new website upgrade coming soon, Polar Thermal Packaging Ltd, has its sights set on big changes for the future.

Should you require any further information, regarding our products or services, Please contact Polar Thermal Packaging Ltd.

T 01985 214111
sales@polarthermal.com
www.polarthermal.com

Providing Innovative Patented Solutions for Over 50 years



Campisa is a leading manufacturer of dock levellers, dock shelters and other loading bay equipment, fast action doors and sectional door drive systems. With an expansive history, Campisa was first established over 50 years ago in Milan. "The manufacturing plant in Milan has been established over 50 years and we registered Campisa UK Ltd in March last year." Alan Jenkins stated.

Specialising in loading bay equipment, sectional overhead doors and high-speed doors, Campisa maintains a dominating global presence with numerous industrial patents obtained, establishing itself as a leading innovator in hydraulic drive systems.

A notable unique product for Campisa is its Fidelity® hydraulic drive system. Featuring an innovative design, the patented Campisa Fidelity® hydraulic drive system works similarly to a conventional drive unit but does not contain springs, spring shafts and cable drums. By eradicating the need for springs and cable drums, the drive provides an enhanced safety method of installation and servicing of sectional doors. Notably, the system can also be fitted to both existing and new doors. With a plethora of benefits, the Fidelity® hydraulic drive system boasts low operational cost and maintenance.

"Campisa has manufactured a unique hydraulic drive system for sectional overhead doors called the Fidelity Compact, which replaces conventional springs and cable drums, which when damaged can result in expensive repairs." Alan continued, "With the Fidelity Powering unit, both the sectional door and dock leveller can be operated by one wall mounted hydraulic console. Also the combined unit would only require a 0.75kW 3 phase motor, whereas most other loading bay sets would require between 1.1kW and 1.5kW."

In regards to the impact of the ongoing COVID-19 pandemic, Campisa has been extremely fortunate and has been able to continue its growth and respond to the needs of its markets. "If anything our market has increased in some areas, especially in the warehousing market. The pandemic has meant that a lot more people are shopping online and therefore, more products are being warehoused for early delivery, resulting in an increase of warehouse space and development." Alan said.

Indeed, Campisa maintains a clear dedicated ethos of continuous development and with this in mind; Campisa has recently added a brand new factory which is being built in Alba, about a two hour drive away from Milan, with state of the art production machinery. A great new asset for the company to complement its future ambition, which Alan stated is to "become the fifth major player in the loading bay market."

For any further information on Campisa, please see the details featured below.

Contact
T 01536 851785
www.campisa.co.uk



Thermal Insulated Pallet Covers

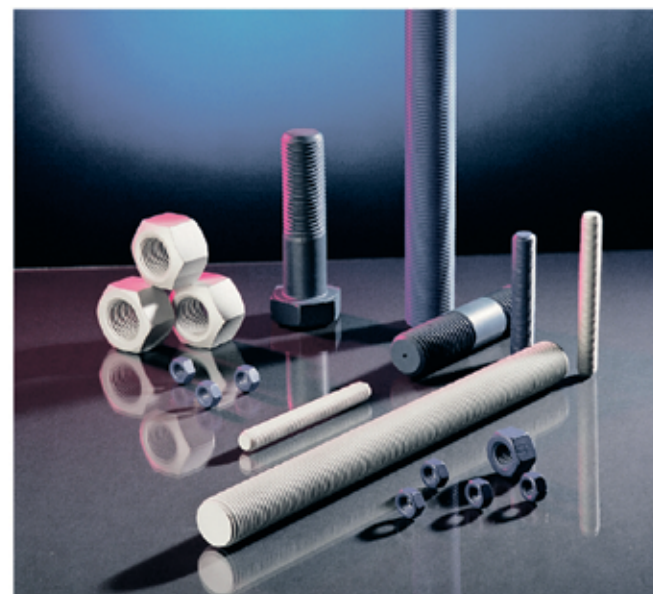
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AZM150 SOLENOID INTERLOCK:

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The AZM150 solenoid interlock can be combined with three different actuators for different installation situations: a straight actuator for sliding doors, an angled actuator for large revolving doors and a movable actuator for smaller revolving doors. One of the plus points of the interlock is the rotating actuator head which can be locked simply by putting the lid on rather than a screw fitting. The rotating actuator head has two feeder slots to enable a range of installation positions and approach options. This makes the interlock really flexible to use.

The AZM150 is an electromechanical design which can be combined with high safety standards. The interlock comes with a low coding level as standard but is also available with an optional high coding level. The benefit for users: In accordance with ISO 14119, a higher coding requires fewer measures to prevent the bypassing of locking mechanisms, such as fitting out of range or in a concealed position. Schmersal is the only manufacturer which can offer electromechanical safety switches and solenoid interlocks with high coding levels.

Scan the QR code to see the AZM150 in action or visit our website for more information.

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 www.schmersal.co.uk
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Providing labelling services to the food and beverage sector, PFM predominately specialise in providing business leaders with exclusive vacuum packaging, slicing and weighing equipment both new and reconditioned. Additionally, they also distribute a widespread range of sundries including vacuum pouches, bags, sausage casings, rusk, sausage seasonings, professional knives and more.

The labelling company are also able to provide clients with an extensive after sales support service,

catering to those who seek help with their items, extra equipment, adequate know how on how to maximise their product's potential and much more.

Their internal and external vacuum packages are particularly sought after, having been developed using top quality PA/PE material.

Similarly, their sundry and clothing is made using the finest materials, and encompasses commonly used cooking attire, such as aprons, gloves, hair nets, coats and trilby hats. Food equipment, which

includes knives, steels and racks, are also popular purchases among clients.

PFM also supply clients with first-rate safety efficient chain mail gloves, which have been specially fabricated for both hygiene and protection.

Their latest merchandise, the Epelsa Range of scales and printers, has been so efficaciously constructed that they have attracted multiple clients such as the Co-Op, who have had this product placed in a number of stores across the

UK. Moving forward, the company are looking to enlarge their current market footprint as a leading provider for the meat industry, extending their consistent and efficient services to new sectors and client bases.

T +44 (0)8449 802428
www.pfmplus.co.uk



Online Training News

Make the Wise choice!



Wise Global Training provides online health and safety training courses which are accredited by NEBOSH and IOSH. Boasting many benefits, elearning is a modern, efficient and cost effective solution for health and safety training. The company caters for individuals all the way up to global organisations such as UNIDO and multi-national companies such as Smith and Nephew.

All of the training courses were written by trainers, with learners need's in mind. This ethos has enabled Wise Global Training to be able to provide material that contains the right tools and skills, to assist its clients to engage with the subject and course material. Full tutor support is guaranteed at no additional cost and its flexible approach allows users to study at their own pace. The courses are easy to access, and Wise Global Training also holds an impressive 100% Pass rate on IOSH Courses.

After an increased interest in online courses following the COVID-19 Pandemic, the company has many plans in terms of strengthening its global presence and course offering.

For further information, please see the details below.

T +44 (0)1482 211989
https://wiseglobaltraining.com

Hoists News

Way above the rest

Direct Hoist specialises in GEDA construction hoists and transport platforms, providing high quality, reliable hoist equipment to the construction industries. Boasting a team of hoist experts, the company implements a cost-efficient construction hoist solution for a variety of hoist requirements. With over 30 years of experience, the company showcases its wealth of knowledge through hire and sales of GEDA hoists and accessories.

Through the use of GEDA, the hoists guarantee reliability as they are manufactured through traditional German manufacturing practices of competence. Direct Hoist provides a vast range of GEDA Hoists, from small to large sizes, and it provides a diverse range of hoists with load capacities of 150kg to 3,700kg.

In terms of hoist types, the company maintains a diverse range of hoist products and capabilities. Direct Hoist provides a range of hoists for hire and hoists for sale. Within these ranges they include: scaffold erection hoists, goods hoists, transport platforms, inclined tile hoists and XL hoists.

With the highest quality being of the upmost importance to Direct Hoist, the company adheres to providing modern, sustainable hoists, which are maintained, installed and dismantled by a team of highly-qualified hoist specialists.

With this in mind, Direct Hoist boasts an array of accreditation, including Constructiononline, and the firm is also a member of Construction Plant-hire Association, Construction Hoist Interest Group and Construction Industry Training Board.

Direct Hoist also ensures that its hoist installation supervisors are trained to an NVQ Level 2 diploma in hoist installation.

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A cut above the rest

Situated in South Gloucestershire, specifically in Yate, Bristol, CAMB Machine Knives dedicates its efforts to the professional supply of contemporary, razor-sharp tools that can be efficiently and effectively employed in many operational environments. The business was set up in 1989 by husband and wife team Jerry and Christine Milner upon realising that there was a substantial gap in the market for these particular products.

Having advanced significantly over the years, CAMB Machine Knives has become an internationally acknowledged brand that has been widely appreciated for its extensive array of high performance products. Its impressive portfolio comprises, to name a few examples, circular knives, top dished knives, bottom knives, toothed knives, straight knives, anvils, tray form blades, razor blades, shear blades, guillotine blades, granulator blades, carpet knives, tobacco knives and confectionery knives. Although predominantly utilised for poultry processes, the stainless steel knives are suitable for use in a variety of

applications – the utensils have proven of great value to those working within the food, packaging, processing and industrial segments. Although similar in many respects to the prototypes currently found in the market, CAMB Machine Knives are deemed a more economical option because of their competitive pricing and high calibre product.



The re-sharpening service is available to anyone who has purchased a knife from the company. Should they require this, this amenity can be arranged on a weekly basis for consistency and convenience. This is also a great facility for clients who are looking to fully regrind their knives, as this enables them to keep their equipment polished, practical and purposeful with greater efficiency and less downtime. For complete customer satisfaction, CAMB Machine Knives operates with a next day delivery service and strives to source the best and most appropriate solution for the application in question.

Enhance the functionality of your product line by investing in a superior blade from CAMB Machine Knives. The group endeavour to respond to (and subsequently resolve) any issues within a 24-48 hour period and this is entirely possible with its global network of representatives. Dotted throughout Spain, Holland, France, New Zealand and South Africa, the experienced specialists can competently dispatch products to clients in 20 different countries in a safe and secure way.



If you are interested in making an enquiry, or would simply like to find out more, please don't hesitate to contact CAMB Machine Knives at your soonest opportunity.

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Homely, friendly and relaxing feel – The George



Situated in the picturesque village of Orton, The George is a traditional Country Inn and Pub nestled on the border of the Howgills and the Eden Valley.

A family run business, visitors at The George can expect nothing less than a warm, friendly and comforting welcome.

Producing an enviable selection of traditional real ales and home cooked food using locally sourced produce, The George's menu is an unmissable experience. The George prides itself on using local produce, sourced from within a 20-mile radius of the George Hotel. Offering an abundance of traditional pub grub dishes, alongside its selection of drinks, The George is the perfect spot to meet up with friends and family.

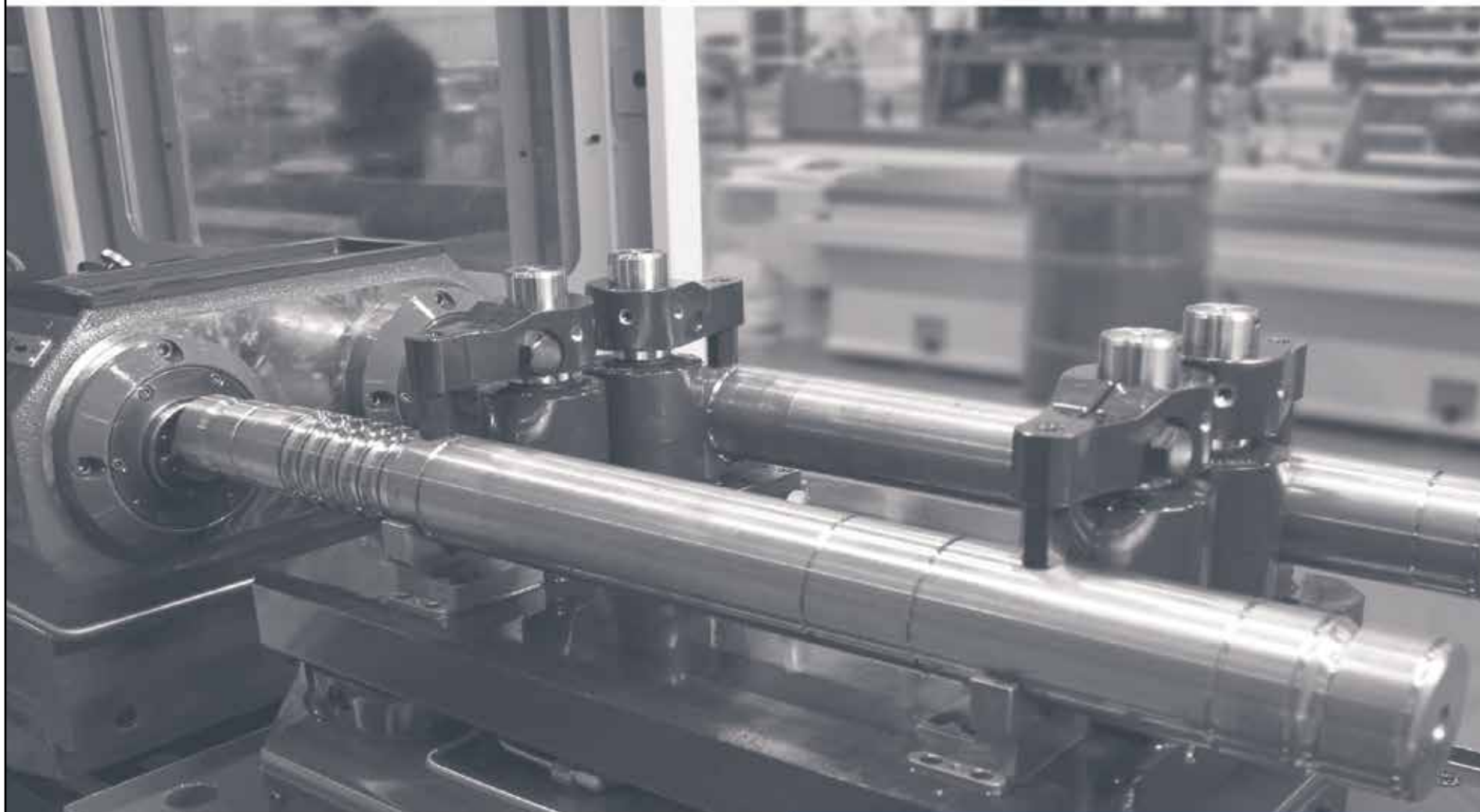
Looking to stay? The George maintains eight rooms on its premises, providing Bed and Breakfast at extremely reasonable prices. The rooms include single, double/twin and a family room. All rooms contain a TV and have tea and coffee making facilities. Specifically designed to provide a 'home away from home' feel, all of The George's rooms feature comfy beds and a warm, homely feel making them perfect for a snooze after a long day of exploring the nearby attractions.

Being perfectly positioned, Orton is just three minutes from the M6 Motorway (Junction 38) and is four scenic miles from the M6 Motorway (Junction 39). There is plenty to see in terms of its surroundings and The George is also on various coast to coast and cycle routes including Alfred Wainwright's "Coast to Coast" walk and Walney to Wear & Whitby Cycle Route (W2W).

Whether it's for a pint in the sun, enjoyed in The George's outside terraced beer garden or a cold winter's night with delicious food cosied up in front of its roaring log fire, The George offers a relaxed atmosphere with a friendly personal service all year long!

For more information please see the details below.

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BUILDING UPDATE

ISSUE: 649 August/September | www.solutionspublishing.co.uk

Finding the right funding for you

Finding the right funding can be not only frustrating and tedious, but a long and often challenging task. Having a hands on approach, SME funding UK has over 20 years' of experience, specialising in commercial funding and invoice finance, and is well equipped with the resources, expertise and knowledge to assist you throughout the process of business funding. The company understands that as a business owner, you need quick results that provide you with the best funding solution. Utilising its expertise and access to over 150 lenders, SME funding UK has built a solid reputation on finding the right funding for its clients, echoed by its multitude of happy clients and testimonies.

SME funding UK Ltd is a business finance broker which was established by current Owner Henry Audley-Charles, to source almost any form of business finance for UK and Channel Island businesses, using traditional, alternative, peer to peer and fin-tech solutions. Henry maintains an impressive amount of experience and has been working in the banking industry for a multitude of years. Working with all the major players in the industry, Henry has worked with Lloyds, RBS and HSBC in Commercial and Senior Business Development roles as well as being the Regional Sales Director for an Invoice Finance Company.

Henry stated, "We are an Independent, ethical, FCA authorised and regulated finance broker. We help businesses borrow money from the right lender, at the right price."

Placing the utmost importance on customer care, SME funding UK Ltd is dedicated to providing the highest level of customer service, ensuring that it handles each application on an individual basis, creating and managing the initial relationship with the funder.

Working both ethically and transparently, the company truly takes on the importance of finding not just funding, but the RIGHT funding solution for its client, saving them time and presenting its clients with the straight facts. Expert customer service is at the forefront of the company's operations, utilising its finance background of nearly 30 years' experience of banks, invoice financiers and independent funders; SME funding UK Ltd boasts the skills, expertise and connections to provide the best individual funding solution.

"We maintain a holistic approach to solving business finance problems. We working ethically to provide the right solution for the client, not the one that pays us the most commission." Added Henry.

SME funding UK Ltd assists its clients to find the right funding for a variety of needs including helping with new and used: equipment, tankers, tools, trucks, vans and yellow plant. This is in addition to business finance requirements, including: Asset Finance, Bridging, Construction Finance, Personal Guarantee Insurance, Buy to Let, Cashflow, Commercial Mortgages, Invoice Finance, Loans, Property Development and Working Capital.

SME funding UK Ltd maintains a varied and vast amount of accreditations, positioning the company firmly at the forefront of the industry for its expertise. Some of its most notable accreditations include being authorised and regulated by the Financial Conduct Authority, a member of the National Association of Finance Brokers and Financial Intermediary & Broker Association, and is registered with the Information Commissioner's Office. As the company is FCA authorised, this provides SME funding UK with access to better quality lenders ensuring that they can offer their clients the best deals.

SME funding UK Ltd's sheer commitment to assisting its

SME funding — UK —

*Helping you to find the
right funding, right now.*

clients is evidenced throughout its operations by various personal client testimonials.

Committed to assisting any UK business needing business finance and with constant expansion in terms of its services, SME funding UK Ltd also provides consultancy services to SMEs to help improve business systems and processes, specialising in the sales ledger and sales order process. In addition, the company is consistently searching for new financing and services to offer its clients and has recently launched aviation and marine financing.

With its reputation being built on continuously exceeding expectations for its clients, SME funding UK Ltd is looking ahead to its future, set on continuing its hands on approach and dedication to clients.

For further information, please see the details below or get in touch if you would like to discuss what options may be open to you via a free of charge, no obligation chat.

Contact
T 01223 848 844
www.smefunding.uk

SME funding — UK —
Helping you to find the right funding, right now.

SME funding have been instrumental in helping us source the right funding for our unique situation.

We are so thankful to have been introduced to Henry; We could not be happier with his fast service, ethical manner and his sound advice.

In fact, we are so happy with Henry we have tagged him on our phone contacts as 'speedy mooney'.

Lisa Woodcock, Mulini Displays and Services, March 2020

SME funding — UK — *Helping you to find the right funding, right now.*

Are YOU looking for Construction finance?

SME funding UK Ltd is a business finance broker. We help our clients find the right funding, right now! We can place most business finance requirements, including:

Asset Finance • Cashflow • Invoice Finance • Loans • Property Finance

We can help with new and/or used:
Equipment • Tankers • Tools • Trucks • Vans • Yellow Plant

We can also help with:
Bridging • Buy to Let • Commercial Mortgages • Property Development

Our clients tell us that we save them both time and money!

We are directly authorised by the FCA (FRN: 772970) and always act ethically to get the best deal for our clients. Please contact us if you would like to discuss what options may be open to you and we can have a free of charge, no obligation chat.

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Unbeatable Varnish for a range of uses

Le Tonkinois Varnish is a specially designed varnish that was first formulated back in China almost three centuries ago. The natural oil based yacht varnish comes with a range of excellent benefits, including being permanent, removing brush marks, not cracking or flaking off.

On top of that, the varnish boasts exceptional corrosion protection for metals and has a durable coat too, meaning it can withstand impact without peeling or cracking.

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.

Le Tonkinois Varnish can also be used to stain wood, and pigments can be mixed in with the varnish if 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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Dash Dynamics is one of largest suppliers of Resin Domed Badges in the UK. Established 26 years ago Dash Dynamics has witnessed tremendous growth and provides an invaluable service to multiple sectors,

helping businesses to promote themselves.

"Growth has continued to be well ahead of the predicted curve and this year's production will reach 1.5 million Domed Products. Investment in staff, training and equipment has been key, for this level of growth. Two further new resin doming plants are being introduced mid-2021.

This will allow production to match projected growth and the capacity to fulfil more requirements in a speedy manner." Mentions David Wilkinson, Managing Director.

Dash Dynamics works with clients of all sizes and across all sectors such as Health Care, Building Trades, Retail, and many more.

David stated, "Customer Care and Quality Service is key to our growing success. We treat all customers the same whether they be big or small."

Dash Dynamics also offers a free of charge sample service, there really is nothing to lose. If you would like more information or to request samples specific to your business, get in touch directly using the contact details below.

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Stay safe with lightning protection

Here at Industrial Solutions, we are proud to announce South West Lightning Protection as our Lightning Protection Installation and Testing Services Company of the Month.



South West Lightning Protection provides a number of services throughout the UK including lightning protection, early streamer emission systems, upgrades of older systems, earthing services and design, safety line testing and inspection of horizontal safety line systems and PPE.

Established in 2014, South West Lightning Protection was created by Gary Libby who has over 40 years' experience in the industry. Located in Plymouth, the company also has an office in Scotland. "Our core service is lightning protection installations and testing; we also design new systems. As we are a small company in comparison to our competition, we strive to provide a personal service to our clients." Stated Gary.

In recent news, South West Lightning Protection has commenced testing of roof mounted horizontal cable based mansafe systems, permanent ladders, guard rails, and safety anchors. These services are provided individually from the company's lightning protection services, and to save the client money, can be combined.

South West Lightning Protection work throughout the UK to assist its clients with their project requirements regardless of their location. Within its lightning protection service, South West Lightning Protection is able to offer a full installation and testing service, including BSEN62305 systems, BS6651 upgrades, NFC 17 102 early streamer emission systems and BS7430 earthing systems. Some recent projects have included chimney upgrade works in Cumbria, new air termination networks in London and a new roof tape system in Plymouth. South West Lightning Protection record all test conditions and results, and a reminder is sent out before the next test is due.

The system South West Lightning Protection use provides an alternative solution to protecting structures where the installation of a British system is not a feasible or a viable option. Some benefits of its early streamer emission device include a more aesthetically pleasing device as the system only requires two down conductors and earth terminations to provide a path to earth. It is cheap to install and maintain, and as the number of roof conductors, down conductors and earth terminations are reduced, the system has a lower carbon footprint.

Its clients include electrical contractors, ministry of defence, NHS, companies in the sectors of water, commercial, telecoms and facilities management, as well as individuals. The company holds a health and safety accreditation by SafeContractor which audits the company training and safe systems of work. All company engineers are CITB card holders for the work they undertake, and DBS checked.

Inevitably, South West Lightning Protection experienced a disruption in the industry from COVID-19, however, as the company provides a safety critical work to the ministry of defence, it was classed as an essential business, so work was able to carry on at a reasonable level. "We have produced a company COVID-19 policy which protects both SWLP operatives and clients. We work with clients to ensure we are in compliance to any restrictions on work which may be stipulated by customers." Stated Gary.

As South West Lightning Protection continue to grow within the lightning protection sector, the plan is to provide long term employment to its existing work force whilst adding new members of staff. "Whatever your requirements, we're here to help." Mentioned Gary.

For more information, see below.

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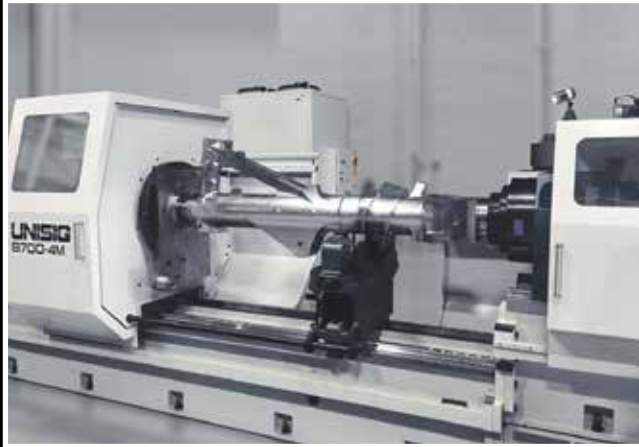
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UNISIG is one of the largest producers of deep hole drilling machines and a leader in technology, innovation, support, and service that our customers rely on to be competitive. Our customers include small job shops looking to expand their capabilities, to large OEMs that need to drill millions of holes.

We offer the entire deep hole drilling system – machines, tools, and automation. We provide technical expertise, training, and remote as well as on-site service to help maximise the value of the investments our customers have made.

UNISIG machines are engineered and manufactured in the USA for our global customer base. Our machines can be installed and supported anywhere in the world. We have installations in the Americas, Europe and Asia and provide the technical support and service our customers need to stay productive through the life of the equipment.

We believe our success stems from a very strong understanding of the deep hole drilling process, drilling tools and their applications. We have a long history of achievement, regardless of the technical challenges.



For more information, please visit our website: www.unisig.com

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Drilling deep to success

UNISIG is the world's leading supplier of the complete deep hole drilling system, offering machines, tools and automation systems whilst working closely with each and every customer to ensure that their drilling project requirements are met. A complete dedication to support and customer satisfaction helps stand UNISIG out as the number one supplier worldwide.

Founded in 1981 by Swiss Industrial Group (SIG) and the US company United Technical, UNISIG provided deep hole drilling equipment technologies to the US market.

A company called Entrust (established in 1973 by John Korosec) acquired the UNISIG brand in 1995 as a product division of Entrust and this coupling helped UNISIG redefine performance expectations in the deep hole drilling market, worldwide. Ever since this merger, UNISIG has dominated the market with its industry leading technologies and continues to radically reduce lead times on projects through its innovations and expertise. I had a chance to interview Philipp Steimle, Managing Director of UNISIG's European Sales branch, to find out more about the company.



"UNISIG deep hole drilling machines are proven with industry leading manufacturers in all regions of the world. UNISIG is chosen for its ability to consistently meet vital demands of tolerance. UNISIG stands out among industry players for its skills in handling large, complex projects including multiple machines and automation, process development and tooling testing, as well as custom engineering and turn-key projects."



UNISIG's latest line of machines, aimed at the mould industry, follow UNISIG's usual trend of creating solutions that are refined and efficient. Mould manufacturers are faced with the challenge of handling large workpieces that require deep hole drilling as well as machining with maximum precision.

UNISIG's mould drilling and milling machines are specifically designed with market input to



combine operations, reducing setup time and effort, increasing accuracy, and eliminating design restrictions of traditional machining centres.

"We are currently releasing a whole new line of machines targeted to the mould industry, models USC1, USC2, USC3 that can finish mould production in maximum 2 setups which cuts down production time dramatically while being extremely cost-effective."

If you would like to find out more regarding the deep hole drilling machinery, other products and services UNISIG offers follow the link below for their website, or alternatively speak to them directly regarding your requirements and UNISIG's professional and friendly team will support you every step of the way.

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"UNISIG deep hole drilling systems consists of machines, durable tooling and automation, and are designed to meet the highest performance standards possible. Products are engineered and manufactured in the USA using metric hardware, and include the integration of premium components such as FAG, INA, Parker, Rexroth, Rohm, Schunk, SKF, Wittenstein Alpha and ZF. Products are designed following all applicable ISO, DIN and IEC standard, and are exported worldwide."

UNISIG supplies their products and services to a wide variety of clientele including automotive, defence, oil and gas, energy, aerospace and medical companies to name a few, but any sector that needs deep hole drilling will benefit from what UNISIG offers.



A great ConSept from Allerton



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

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.



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.

T 0800 328 5492 / 01529 305 757
www.allertonuk.com



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The Dependable Choice in Drainage

In rural areas without a mains drainage system, and where septic tanks will no longer reach environmental standards, Allerton can provide the ideal solution. Trading since 1974, Allerton are leading specialists in efficient treatment systems. They pride themselves on their individual, problem solving approach to dealing with alternative means of treating and disposing of raw sewage.

The Allerton ConSept converts your existing Septic Tank or Cesspit into a fully functioning Sewage Treatment Plant.

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50 Year old products makes dramatic comeback to help beat the virus

When the Melaphone Speech Unit was designed 50 years ago for the booking offices at British Rail Stations, nobody could have predicted that half a century later it would suddenly be in such high demand.

The current Corona Virus Pandemic had created an urgent need for all protective equipment – both for personal use and in the working environment. This is the reason the Melaphone has come into its own again. Its unique design with its resonating membrane and air sealed construction make it the ideal device to install in any situation where

face to face communication occurs. It not only offers protections from air borne viruses and pathogens, it also enhances and clarifies the frequently muffled sound when people speak through a screen. Its protective credentials have been certified to ISO 14644-1 Class 5 – indeed it has often been specified by architects and designers for use in Hospitals, Laboratories and cleanrooms or anywhere hygiene is of paramount importance.

The Melaphone has now been built into the new Defender Virus Screens produced by the company and numerous Doctors Surgeries, Medical

Centres, Clinics and Pharmacies in the UK have had these screens installed with considerable success and approval. The screens are individually made and every component is of the highest quality, giving a clean, sleek and professional appearance. Even after 50 years, we're proud to still be able to say "MADE IN THE UK" at our London production facility.

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Latest News

Making renewable energy accessible and obtainable for everyone

Artizan Lifestyle is a heating contractor that provides designer fireplaces and stoves and renewable energy heating solutions for both domestic and commercial clients.

Artizan Lifestyle delivers tailored solutions for customers seeking design, installation and servicing for biomass boilers: pellets, woodchip and log, heat pumps, solar thermal, wood burning stoves, oil systems and heating system controls.

One of the biggest focuses for the company has been on helping its customers lower their carbon footprint. Under the Heat Incentive (Domestic RHI) the government is promoting a financial incentive for users of renewable heat. With this in mind, sourcing renewable energy for heating your home has never been more beneficial.

Artizan Lifestyle provides an array of renewable energy heating solutions. "We don't just sell," Lynda continued, "We engineer, fit them and can integrate them into pre-existing systems. Our underfloor heating uses heat from the ground as well as from water sources and our Klover smart 120 cooker/water heater is extremely popular."

For any further information, please see the details below.

Contact
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The Slimfocus is a revolutionary design. The World's first suspended, closed, wood burning fire that draws in combustion air at the top of the flue, making it compatible with low energy homes. This versatile fire can be fitted in the centre of a room, in a corner, or even wall mounted. Its super high efficiency makes it one of Focus' prestige models. It is also available as a floor standing gas fire. With our Hetas or Gas Safe installation teams, we are able to assist you from initial design to completion of your dream fire.

With the highest energy rating (A++) available, you can be sure that your Mitsubishi Ecodan is working hard to minimise your energy bills. **Whisper quiet** - Ecodan is endorsed by the Noise Abatement Society's Quiet Mark. UK-manufactured and approved for the Microgeneration Certification Scheme (MCS) making it eligible for renewable heat incentive payments (RHI).

With an average 3-bed family home in the UK needing around 15,000kWh of heating per year, **which would pay £7000 under the scheme**, you can quickly see how the RHI payments can really make a difference. Full service and maintenance packages include remote diagnostics to provide you with complete peace of mind. For every 1kW of electrical input power, Ecodan can provide the home with an average of 3kW of heat output*. This 'free' 2kW of renewable energy is then eligible for seven years of payments from the RHI. Artizan supplies and fits Mitsubishi Heat Pumps to The South East and South West UK. Helping you minimise your carbon footprint and look towards a sustainable future



PPE News

Start creating products which work

Recognised as a pioneer and innovator within the textile industry, APT Fabrics Ltd is an award-winning cutting-edge textile solutions company.

Stanley Russell, founder, is a fellow textile institute with over 40 years' experience within the textile industry covering weaving dyeing, coating and lamination. He has forged a formidable career creating efficient and dynamic commercial infrastructures, geared to maximise profit and derive maximum value for clients and stakeholders alike. Stanley's extensive experience has granted him valuable and multifaceted insight into business operations which provide comprehensive solutions aiming to charter sustainable growth.

As the director of APT Fabrics LTD, Stanley spearheads business development, manufacturing, marketing, and sales of high-performance laminated fabrics. Over the years he has established and implemented a financial framework for business, channel funds, collaborated in start-up initiatives and with InvestNI. Furthermore, he has cultivated lucrative product and global chain supply partnerships to compete with leading brands while effectively negotiating Atomistise technology licensing to a major universal brand.

Through its business analysis service, APT Fabrics Ltd can conduct an in-depth study of your company, working with your staff to identify areas which could possibly need improvement. This service involves looking at a product range, goals, staff training needs and supply chains to devise a business plan that would ensure sustainable growth.

APT Fabrics Ltd also have expertise in technical consultation. Stanley is a highly competent executive who is able to distil

complex problems into simple solutions. His focus allows APT Fabrics Ltd to tackle problems through innovation with his proven track record of devising agile supply chain initiatives aiming to streamline and enhance operational capacity ensuring continued success.

The company runs on two key concepts: creativity and continuous improvement. These two areas build the framework of product development allowing them to work in partnership with other companies and its extensive range of raw material suppliers.

Combining expertise with experience, APT Fabrics Ltd is able to push the boundaries of ordinary, whilst in the process create and produce the right kind of technical solutions to meet your customer's needs.

For more information, see below

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Together we can create forests for the future

Established in 2014 by Nick Hollingworth and Liz Boivin, Tomorrow's Forests are specialists in high volume commercial reforestation, supporting industry, resource management, government, private landowners, and public institutions. "A lot of building work now requires tree planting, so we work with railway projects, housing developments, infrastructure and many others to help do this with cutting-edge technology," explains Liz.

After winning its first contract in 2014 to plant 90,000 trees, Tomorrow's Forests has grown significantly and now plants around 2 million trees each year across its numerous contracts. "After our first contract, we started gaining more, doing subcontracting in Yorkshire as well as some work in Scotland. Since then, we have established ourselves as a main contractor for the work we do and cover the whole of England, Wales, and Scotland," Liz adds.

replace the UK's lost forests, using Tomorrow's Forests' large-scale forestry experience. Instead of just planting trees for carbon sequestration, Creating Tomorrow's Forests is passionate about developing diverse woodland habitats for the long-term. The project uses the Tomorrow's Forests planting expertise 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.

"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. We are very excited about this new project, and it is going well because businesses are prioritising sustainability and examining their environmental impact. We have started tree planting on a new wet woodland site in North Somerset.



This success is in no doubt down to Tomorrow's Forests' efficient, fast, and proactive nature. "When we start working with new clients, we often get positive feedback on how fast our team works. Our professional tree planters can plant around 3,000 trees a day each, so no project is too big or too small for us.

All of our team is trained and works hard during all daylight hours. For forestry work, we use a shift pattern of four days on, one day off. This helps to promote productivity, as they get a consistent day off that comes quicker than doing a five-day week as well as reducing the risk of injury. If we are working on construction sites, it is a five-day week, but the nature of the work is different from standard forestry."

In September 2020, a sister company was established called Creating Tomorrow's Forests, with the mission to fight climate change by creating forests across the UK, providing new habitats for wildlife, and removing CO₂ from the air. Creating Tomorrow's Forests was launched to make it easy for individuals and businesses to make a positive impact on the planet and



A lot of people are getting more interested in tree planting and the benefits it has, sequestering carbon and creating 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 want to work on expanding Creating Tomorrow's Forests, acquiring more sites and diversifying what we offer. Once we've completed the site in Somerset we'll be moving onto somewhere else."

And it is certainly true what Liz says – during the lockdowns across the world due to COVID-19, nature reclaimed many areas.

"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 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, Creating Tomorrow's Forests has been getting more and more interest from businesses and individuals.

We are looking forward to developing the company further next year. We currently plant 2 million trees each year with Tomorrow's Forests,

and we want to reach the same point with our sister company."

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.

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(Managing Director)
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www.tomorrowsforests.co.uk
www.creatingtomorrowsforests.co.uk



www.tomorrowsforests.co.uk

Tomorrow's Forests can assist with the supply and planting of high quality local trees as well as sundry products required for your woodland creation project.

Our professional and dedicated team will carry out all the necessary surveys of your property, produce detailed designs and, with our skilled planters, will implement the new woodland creation to the highest standard and to meet your exact requirements.

We will provide help and advice throughout the process and ensure that specific government funding requirements are met. Following the completion of your woodland creation project, we can offer ongoing maintenance, upkeep and professional advice.

There are many advantages to the planting of trees on less productive or unused land areas and farmers and landowners can now obtain a number of government grant and funding options to help with establishing new woodland areas.

Woodland creation projects can be undertaken on suitable land from 3 hectares up larger areas of over 10 hectares and can provide substantial environmental and financial benefits.

Woodland Creation Benefits Include:

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- Game cover
- Improving the amenity value

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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.



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



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

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.

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How can you improve your driver and fleet risk management?

Improve your risk and compliance processes with the future of driver & fleet risk management solutions.

Licence Bureau, via its parent company TTC Group, is offering the world-leading driver and employee risk management platform solution TTC Continuum.

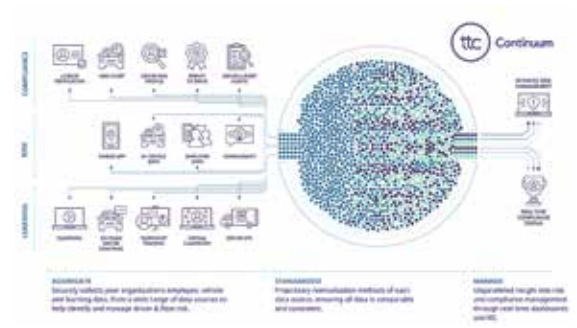
Integrating data from numerous sources, including telematics, driver behaviour

and in-vehicle technology, TTC Continuum delivers comprehensive insights into driver risk and compliance management through real-time dashboards and management information.

By using TTC Continuum, you can easily and quickly manage your entire driving community from a single online platform, ensuring real-time compliance with HSE legislation and that your organisation is

best placed to manage 'Duty of Care' Compliance under current UK legislation.

Thanks to its 24/7/365 delivery of driver and fleet risk data, TTC Continuum makes managing your organisation's fleet far simpler, driving decision making and focusing fleet management resources to where they're needed most.



TTC Continuum

TTC Continuum platform manages driver Risk & Compliance

TTC Continuum is the future of driver & fleet risk management solutions, integrating data from many sources including telematics, driver behaviour and in-vehicle technology, to deliver unparalleled insight into driver risk and compliance management through real-time dashboards and Management Information.

- Driving Licence Verification
- Grey Fleet Management
- Driver Risk Profile
- Permit to Drive
- Driver & Fleet Risk Audits



www.thettcgroup.com

The platform recognises that each driver is a unique individual, ensuring that any training meets drivers' exact needs and adapts as their needs change, lowering collision risk exposure and the related costs you might incur. Furthermore, you can tailor training to match your business needs by starting with compliance and then building a programme to deliver real business benefits, such as collision cost reductions, improved employee retention and stabilised insurance premiums.

The effectiveness of this training can decline over time unless it is reinforced on a regular basis, so TTC Continuum also offers a suite of post-training interventions, such as micro-videos, that keep driver risk at the forefront of every drivers' mind.

What's more, by combining driver-declared driving history with real-time telematics data, TTC Continuum offers customers the opportunity to use multiple data sources to drive fleet and driver risk decision making.

Of course, the risk exposure for drivers changes day by day – it can be increased in poor driving decisions or reduced by targeted and personalised training. TTC Continuum helps to identify changes in risk profile and discovers opportunities for additional remedial action.

Other solutions included within the TTC Continuum include Driving Licence Checks, which feature a digital e-declaration and results within seconds. Results are stored by TTC Continuum and help to identify the highest risk drivers, being a key element of the driver Risk Profile Score. This is in addition to a Driver Risk Profile, with a 40-question Driver Risk Assessment. Scores are produced by market-leading risk score algorithms created by industry experts and validated by data scientists, with an easy dashboard view of Driver Risk Profiles.

This is just a snapshot of TTC Continuum's comprehensive features, and readers are urged to get in touch with Licence Bureau for a demo to discover first-hand how TTC Continuum can improve your driver and fleet risk management.

Interested? Get in touch using the details below.

T 01442 430 980
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www.thettcgroup.com/driver-risk-management/ttc-continuum





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Go paperless with CheckedSafe

CheckedSafe, established in 2014 by co-Directors Gary Hawthorne and Darran Harris, was developed to provide simple and inexpensive compliance solutions that could be adapted for any industry. Now, CheckedSafe provides compliance services across several different platforms, notably commercial and plant hire vehicles, utilities, and many other service sectors that are monitored for compliance.

As a SaaS platform, CheckedSafe has developed multiple apps and a web-based reporting system that is multi-functional and secure, offering organisations complete solutions to manage and protect their workforce as well as comply with legal and commercial requirements while reducing cost and liability. The system is also fully compliant with the regulatory bodies and has just achieved ISO 9001 and ISO 27001.

CheckedSafe has grown impressively over the years, from the beginning of an idea six years ago to now approaching 10,000,000 checks and 400,000,000 data points over 4,000 depots, including Kier, Amey, and Scottish Water, as well as being the preferred partner for Hitachi, Northgate and QBE.

"We are award-winning and innovative, and we are continuing to develop the product with new ideas," said Gary. "We've done well during the COVID-19 pandemic and we have made full use of online platforms like Zoom to deliver demos and meetings to our clients, both existing and new."

CheckedSafe's defect reporting, compliance management and fleet maintenance solution boasts a range of features. Compliant with DVSA, HSE and Border Force, as well as LOLER, PUWER and ADR, it allows for a quick and effective driver walk around with pre-use or first user checks. It also has the option for customised checks tailored to the user's requirements, and all reported data is available in real

time and cannot be manipulated. What's more, there is a full audit trail with user interaction at each time.

For fleet management and maintenance, CheckedSafe offers scheduling, notifications and planning to enable 100% fleet compliance. The solution also provides a Full Workshop Management feature, as well as the ability to upload paper or carry out digital PMI checks.

CheckedSafe also uses the GPS on the driver's mobile device to pin point their location when they carry out the daily walk around check, and this map location is included in the resulting report. The system also has several DVSA recommended checklists, and all checks can be made bespoke for any vehicle or piece of equipment. What's more, checks can be carried out regardless of Wi-Fi connection or phone signal. The checks are stored on the device and uploaded to the CheckedSafe Compliance Management System (CMS) when the driver regains signal.

The software is designed for Android and Apple mobile devices, so can run on mobile phones and tablets, as well as being available on the TomTom platform. The driver's movements can also be tracked using the mobile device's motion sensors as the driver undertakes the check, ensuring it is being accurately completed as you can see the driver moving around the vehicle. Ellisons Technical Services experience the benefits of CheckedSafe first hand, saving in the region of 15 minutes per job.

Owner Stewart Ellison said, "We are saving easily 15 minutes per inspection sheet. We also make other savings in the fact that everything is in the cloud and all data for the fleet is a fingertip away, so searching folders has gone and storage of information has gone – it's all in the cloud tagged directly to the vehicle."

"We've also used bespoke templates to suit the tasks,



which is all DVSA compliant. The data is real-time and cannot be edited so you cannot fail to be compliant – CheckedSafe is definitely the product that has allowed me to streamline and grow my business.

"The system stores, schedules and notifies of all tasks required, which gives me and my client the ability to react quickly to the demands of busy operations and minimise downtime."

If this sounds like something you could benefit from, you can test drive CheckedSafe for 30 days with no restrictions. The trial will give you full use of the App and CheckedSafe CMS – all you need to do is fill out the online registration form or download and complete the form and upload it back to CheckedSafe's website: <https://www.checkedsafe.com/free-30-day-trial/>

You can also request a demo before the trial, where CheckedSafe will have a chat with you about your business and current procedures, before running through the key features and benefits of CheckedSafe and any questions you might have. These demos usually take about 30 – 45 minutes, and CheckedSafe is very flexible with demo times and will work around your timeframe as much as it can.

If you would like to find out more information on CheckedSafe's full range of features and benefits, head to the website or get in touch using the contact details below.

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Your material handling partner

In this issue of Building Update, we are proud to announce that we have selected Davison Forklift as our Forklift Solutions Company of the Month.

Davison Forklift became a limited company in 1977 and grew as supplier of forklifts to the manufacturing, logistics and supply chain of the West Midlands and surrounding areas. In the summer of 2017 the company was purchased by the Malcolm Harrison Group of Companies with the intention to grow organically and extend our hire portfolio. As part of this ambitious growth projection in early 2021 we moved into our current premises located outside Telford in Shropshire.

We are now dealers for Clark forklifts, Ausa Equipment and Machinery, Haulotte access platforms and Hako cleaning equipment.

As a company we have carefully selected our partners to offer the full range of counter balance forklifts, rough terrain forklifts, telehandlers, access equipment and cleaning equipment for all industry sectors.

Davison Forklift Ltd are members of the Forklift Truck Association/BITA and CFTS accredited to perform Thorough Examinations to the Quality assurance Procedural Code



Our product range enables us to offer equipment for long and short time hire and also sell new and used machines from our extensive stock.

With our industry wide connections we can also source equipment from other manufacturers and have a range of JCB TLT and telehandlers arriving this summer.

For any further information, please see the details featured below.

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UNISIG Drills Down to the Smallest Diameters

By Eric Krueger and Ryan Funk,
Engineering Team, UNISIG

The modern gundrill is an engineering marvel, a well-designed piece of equipment that does one thing exceptionally well. A new gundrill will produce round, straight holes with enhanced cylindricity even at its deepest points. And it does all this while simultaneously providing a fine I.D. finish and excellent tool life.

Like all tools, gundrills wear out, typically after drilling around 1,000". While a talented operator can still drill a hole with a worn gundrill, it will more often result in a loss of hole tolerance and finish at best. As gundrills wear, they require more thrust and torque while producing more run-out and experiencing greater drift. A dull cutting edge will produce irregular chips, which in turn cause spikes in coolant pressure – sure signs that failure is imminent.



Unlike some tools, gundrills are excellent candidates for resharpening. When performed correctly, the same gundrill can be resharpened to perform as well as a new drill as many as 8 to 10 times. The only significant difference between a resharpened gundrill and a freshly produced tool from the OEM is a slight back taper, an issue only for shops that require tolerances far beyond most manufacturers' needs – all other shops can simply account for the ever-so-slightly reduced tool diameter. Otherwise, the only visible difference will be seen in the length of solid carbide on the gundrill's tip.

Even coated drills can be sharpened. Naturally, this will reveal the raw carbide on the face, but this does not impact performance. The coating will remain on the wear pads and continue to improve the gundrill's size control and ability to leave behind a finished surface. Tool life will be impacted, but the only other option is having it fully resharpened and re-coated by the OEM, which will likely be less cost effective.

Manufacturers have several options for

resharpening their gundrills. For specialized gundrills, such as twin-flute tools and those intended for ultra-high-feed applications with chipbreakers below a coating, resharpening is something that only a gundrill's OEM can do. A local sharpening service will likely have the proper equipment, but this requires having redundant tooling and factoring in lead time and transportation costs.

However, both of these methods result in a loss of process intelligence. The grinding process can offer valuable information manufacturers can use to optimize their gundrilling applications. As a result, more manufacturers that use gundrills are choosing to resharpen their tools in-house.

The main risk of performing resharpening operations in-house is poorly sharpened gundrills. Without the correct tip geometry, gundrills do everything worse: size control, roundness, cylindricity, finish, chip control, straightness and depth all negatively impact workpiece quality and result in significantly diminished tool life. This will cause operators to reduce feedrates or change out tools more frequently to achieve the necessary tolerances and out of fear of catastrophic tool failure.

Modern gundrill grinding systems make it easy to avoid these consequences. For the greatest advantage, one needs the full system. That means a grinder, the appropriate gundrill fixture and equipment for calibrating and inspecting the drill tip.

A basic, high-precision manual tool grinder is used as a platform for these systems, though the length of some gundrills necessitates a reinforced table for sufficient accuracy. Choosing a fixture can be more complicated, as gundrills can be ground in two different ways. Sweep grinding leaves behind a gradual transition between elements of the tip's geometry, while facet grinding creates distinct geometry. UNISIG typically recommends facet grinding, because the slight increase in tip strength produced by a sweep grind is outweighed by the repeatability and greater ease of inspection offered by facet grinds.

The final piece of advanced gundrill grinding systems involves a digital inspection camera capable of viewing and storing magnified images. Ideally, this will allow the user to perform measurements and identify flaws without taking the tool out of the fixture. In addition to allowing for highly precise grinding, this inspection is vital for process optimization.



Process optimization capability is the real added value conferred by performing gundrill resharpening in-house. Frequent inspection allows for the maximization of tool life. Shops become familiar with the wear patterns created by a given application and may find they are replacing gundrills too often. If a gundrill tip has even wear across its entire cutting edge, it could easily have many hundreds of inches of life left, something that will only become apparent with repeated inspections.

In-house gundrill resharpening also ensures that shops can obtain the best tip geometry for their given applications. Whether it is uneven or unexpected wear, or the sudden appearance of chips in the cutting edge, once a shop identifies an irregularity, they can then adjust speeds and feeds to optimize the process. The inspection equipment even makes working with tooling OEMs easier, since shops can send them a measurement set and picture of a tool when asking for advice on how to improve the geometry.

With more experience, it becomes possible to tie a wear condition back to the process. For example, if there is a visible build-up along the



cutting edge, it is often because the rotational speed is too slow. Conversely, if the edge is wearing faster than the tooling supplier's data suggests, the tool is likely spinning too fast. Meanwhile, a chipped cutting edge suggests the feedrate was too high. With this know-how, shops can optimize the process and avoid future problems.

Fortunately, modern gundrill grinding systems make developing this know-how easy to achieve; in fact, the process usually takes longer to describe than it does to perform. After clamping in the gundrill, an operator can use geometry data from the tooling supplier to calibrate the camera. With the latest human-machine interface software, this can be as simple as drawing a line on the screen to establish the known gundrill diameter for repeatability purposes.

After calibration is complete, grinding can begin. The grinding wheel, turning in the direction toward the drill edge, makes contact with the drill tip after the operator confirms the correct rotational and X- and Z-axis orientations. A standard starting point grind will begin with the tip angled at +30° horizontally and +15° vertically with the rotation at +5°. The Y-axis is used to hold the tip to the grinder while feed is performed along the Z-axis at a rate of about 0,05 mm (0,002") per pass.

Some gundrills include an outer secondary angle parallel to the front cutting edge where the primary and secondary angles meet. It is critical that this primary facet is relatively narrow, since too much width will increase heat production and, consequently, reduce tool life. The operator next moves to the inner relief facet by moving the grind fixture -20° vertically in the opposite direction from the primary angle. This movement results in the formation of a point position with a length that is exactly 1/4 of the drill's diameter, or the "D/4" position, but other lengths may be necessary depending on the material.

Next, the operator moves to the front clearance, a facet with a point close to – but not touching – the front cutting edge. With standard gundrill tip geometry, a 0° horizontal angle and rotation as well as a +26° vertical angle will provide the correct position. While cutting performance improves the closer this point gets to the cutting edge, optimal edge strength requires placing the point slightly behind the edge. If a tip's geometry requires an outer secondary angle, the front clearance facet's point should meet it. Otherwise, the point of the facet is placed between 0,50 und 0,75 mm (0,02" und 0,03") behind the front cutting edge.

The final step on the grinder provides the oil dub-off, a facet with an edge tangential to the flute of the gun drill. Operators position the grind fixture at -30° horizontally, +25° vertically and +65° rotationally. The gundrill tip then feeds into the grinder at a rate that prevents cutting into the front cutting edge. The optimal angle meets the inner relief angle at the corner opposite the gundrill's outside diameter.

After grinding is complete, the operator can use a hand chamfer to create additional clearance for optimal performance. The finished gundrill is now resharpened and ready for use – a process that takes fewer than 10 minutes. Given the ease of use and the significant process optimization opportunities, it is time to re-think gundrill resharpening.

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

You will also meet us at the EMO 2021 show in Milan, Italy in Hall 2, E38 from 4.-9. October.

Photos: UNISIG



The Camtorc Actuator: A Short Case Study

An Optimised Design for Valve Actuators

The Camtorc series actuator is a mathematically derived cam system first manufactured in 1975. It has been in continuous production since, gaining a base in industries all over the world. Imtex Controls acquired all rights to the design in 2006 and integrated it into a modular assembly that is particularly suited to space-sensitive or remote/inaccessible locations.

The unique Camtorc design has many advantages over other actuator systems, and it is important for end users and buyers to be aware of these differences. This case study will explain the advantages of Camtorc, outline the modular components, compare Camtorc to other actuator systems, and also demonstrate how fail-safe valves, or applications where Maximum Allowable Stem Torque (MAST) is a concern, will benefit from improved torque-efficiency and a reduced risk of valve failure. Finally, there is discussion of how Camtorc can prevent spurious trips and false alarms on assemblies where valve testing, especially Partial Stroke Testing (PST), is in use.

Advantages of the Camtorc Actuator

The Camtorc actuator is a linear to rotary motion convertor primarily used for the pneumatic or hydraulic actuation of quarter-turn pipeline valves and dampers. Consequently, the design has seen a big uptake in the oil/gas, marine and power generation industries. What really sets this design apart is the mathematical profile of the cam which ensures a constant output torque during the piston stroke. This eliminates backlash. The combination of zero backlash and constant output torque means



there are fewer moving parts – reducing possible causes to fail, which contributes to a longer service life and lower maintenance costs.

Additionally, this optimised system also avoids two more, related problems. Firstly, the constant torque negates large side-forces which require additional infrastructure within the housing. This in turn avoids the problem of side-loads, which require more complex assemblies. As a result, Camtorc actuators are more compact and generally have lower installation costs.

The Camtorc Actuator Outperforms Other Systems

Compared to other actuator systems, such as the scotch yoke design, Camtorc offers substantial advantages. The scotch yoke actuator employs a piston that moves a yoke via a sliding pin. It is easiest to think of Camtorc as an optimised version of this design, clamping the yoke apparatus (attached to the pistons)

around the cam so they remain in contact along a frictionless surface. Performance differences between the two actuator designs are summarised in the below table:

Other Valves that Benefit from a Camtorc Actuator

Camtorc offers significant safety benefits for certain types of applications listed below:

- **Modulating Valves:** zero-backlash and high run torques make Camtorc very suitable to modulating valves.
- **High Cycling Valves:** The simple mechanism and lack of side-forces means Camtorc is not prone to excessive wear and will run for extended periods on high cycling valves. Camtorc has been tested in excess of 1 million operations (Third Party verified to 0.5 million operations by CEEB in the UK).
- **Remote Valves:** The lack of side-forces increases the intervals between service maintenance making Camtorc particularly suited to remote and inaccessible valves.
- **Space Sensitive Applications:** The compact design makes Camtorc the obvious choice where space is a limiting factor (on Offshore rigs for example).
- **Valves Required to Fail-Open:** Extra torque generated on the spring stroke allows for smaller Camtorc models to be fitted on fail-open valves. Typically, Camtorc actuators fitted to fail-open valves are a third smaller than the equivalent scotch yoke.

Valves Fitted with Testing Apparatus (i.e. Partial Stroke Test)

On safety critical valves (i.e. ESDVs) it is increasingly common to carry out some form of valve assembly testing, such as Partial Stroke Testing (PST). The advantages for plants and rigs are that critical valves are tested for integrity without the cost burden of shutting off the valve.

There are two distinct advantages to the Camtorc design when it comes to PST:

- In the dual piston-design of the Spring Module less air needs to leave the actuator to start the piston moving, and a much larger pressure drop is required to complete the stroke. This significantly decreases the risk of over-travel (spurious trips).
- To prevent over-travel a maximum pressure drop is often set, but on a scotch valve actuator this is usually very close to the pressure required to start moving the valve. Therefore, if the valve sticks a little (which often happens when a valve has been inactive) the test might fail erroneously: since a slightly lower pressure would cause the valve to move. With Camtorc, the larger pressure differential on the spring stroke allows for much more control of the PST system, and the maximum permissible pressure drop is far less likely to abort the test.

False fails and spurious trips are costly and risky on a plant or oil rig where they might lead to a partial or complete shutdown of operations.

Summary

For the buyer, all of the design benefits of the Camtorc actuator system result in a significantly reduced Whole Life Cost (Whole Life Cost is the projected cost of an asset over its entire life).

Overall, companies that choose Camtorc benefit from:

- **Lower installation costs**
- **Lower maintenance costs**
- **Improved safety (and reassurance where MAST is a design criteria)**
- **A longer service life (particularly important in aggressive environments)**
- **Significantly lower risk of both spurious trips and false-fails during PST**
- **Reduced Whole Life Cost**

The Camtorc series is available for pneumatic and hydraulic applications in either double acting or spring return configurations with a full range of modular control accessories.

Please contact Imtex Controls on;
T +44 (0)8700 340 002
E sales@imtex-controls.com for more information.

CAMTORC

- Fewer moving parts = longer service life + lower maintenance costs = reduced Whole Life Cost
- Integration of cam & body pistons reduces dimensions of unit
- Cam slides across low friction pads, increasing output efficiency to 90-96% of theoretical max.
- Consistent output torques throughout the stroke: suited to modulating control
- Large side-forces are eliminated = less external housing = suited to remote/inaccessible locations
- Cam mechanism is backlash free = easily stopped/started mid-stroke
- Reduces the risk of false-fails & spurious trips during PST = lower risk of plant shutdown / damage

V S SCOTCH YOKE

- More moving parts = more wear and risk of failure = higher Whole Life Cost
- Inconsistent output torques throughout the stroke
- Large side-forces at either end of the stroke require additional infrastructure/housing
- Side-forces and pin friction reduces efficiency to 75-80% of max. theoretical torque
- Larger unit + more complex assemblies = higher installation costs
- Where MAST is an issue the stem size may need to be increased = larger unit / more assemblies
- More likely to create false-fails or over-travel (spurious trips) during a PST test = damage or shutdown



Solving Valve MAST Issues

To find out more about our unique Cam Actuator and backlash free operation
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AmbaFlex launches new slat innovation

Innovation is one of the key values of AmbaFlex. It is in our DNA to design and develop improvements driven by both market-needs and customer-specific requirements.

The latest in line is the development of the AmbaFlex TPO6 slat. This 600mm/24" wide slat with overlapping structure answers several different market-needs in 1 go. It's specifically designed to handle the increased amount of (vulnerable) product variations, expanding the possibilities of our program in all relevant markets. It also answers the ever increasing demands of working safety, especially

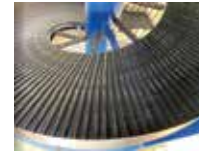
for the next generation of distribution centers and the increased amount of operators.

Spiral Elevator with TPO6 slat

The slat is made out of an extremely durable synthetic material and can be fitted with our unique full surface friction option during the 2k molding process. Together with the unique Triple-E track build-up (awarded with a patent), we offer unparalleled strength and efficiency with our SpiralVeyor solutions. With belt widths of up

to 1200mm (or 48 inches), we are able to transfer virtually any and all products. This new development will further enhance and complement the many possible applications offered throughout our program.

Contact
T +31 229 285130
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www.ambaflex.com/en



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 slat.

Project specifics:

- transportation of 500 ml glass bottles
- over 40000 bottles-per-hour throughput
- full stainless steel with corrosion-resistant chain
- a footprint of only 2240mm
- single track
- new TPJ 400mm wide slat

While our original SVM is optimized 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 slat, specifically designed for this job. The 400mm wide TPJ interlocking slats ensure a gapless surface and result in a minimum of product movement, keeping them in perfect condition.

Watch the complete video here: <https://www.youtube.com/watch?v=3d6Ch5h7S3s>

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 customizable with a comprehensive list of industry-relevant options and a small footprint, giving our customers exactly what they need.

OeTTINGER spiral conveyor

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.

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Finpromach Ltd Improves Your Process Efficiency and Operator Safety



Finpromach Ltd, established 2018, uses 25 years of industry experience to represent equipment from prestigious manufacturers from the UK, Europe and USA including Palamatic, Gericke, Andocksysteme, Austar UK, LAST Technology, Vac-U-Max, Bila (Global AGV) and Hallins.

Operating in the fields of Powder and Materials handling, Containment, Isolation, Washing and Sterilisation widely used in regulated industries such as Pharma, Food and Chemical.

Recently developed with Palamatic, was a new fully automatic Atex compliant sack opener to replace conventional manual sack tipping stations.

The PAL F-AST (Palamatic Fully Automatic Sack Tip) occupies a small footprint and addresses problems of manually handling and opening sacks. Operators can process a range of sacks without concern of manual handling contravention (HSE) and exposure to dust potentially hazardous to health (COSHH).

The PAL F-AST opens sacks at 1-5 minute within a dust tight cabinet, then compacts the emptied sack into a polythene tube for easy waste sack removal.

Complementary ancillaries include vacuum sack lifter, robotic infeed, explosion mitigation, size reduction, powder grading, rotary valves, CIP, drying and a conveying system for the next stage of the process such as mixing.

Using equipment from Finpromach improves house-keeping, process efficiency, manual handling, operator safety, especially when dealing with dusty or toxic compounds.

Finished product quality is ensured to limit wastage from contaminated batches of product, whether that be pure printing inks, injectable vaccines, or food ingredients.

Recent news is the partnership with Bila and their Global AGV automated pallet handling solution. Repetitive pallet movements (such as end of line to wrapper and then warehouse) can be automatically undertaken without operator intervention. With a fast payback time process efficiency is vastly improved, with no product or fork lift damage caused by human error or carelessness. Routes and procedures are easily altered by the local supervisor using the innovative control interface requiring only a single day of training.

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www.finpromach.com

Enimac - Tape application solutions for your industry

After a period of internal development, we started selling table top and wider format stand-alone tape application machines in 2013, applying many types of tape from transfer tape to thicker foam tapes in the printing and packaging industries. Since these machines apply tape to "anything flat", we soon had clients also using these machines in the production of aluminum wall signs and wall protection strips in PVC.

We have since expanded our business to include applicators for integration, into production lines, other machines and on robots/cobots working both with final clients and systems integrators. You can find our

applicators integrated in the automotive, aerospace and appliances industries.

Some types of tape application require a more complex complete system. We have supplied 2- and 3-axis cartesian solutions to the automotive, shipbuilding and appliance industries and a pick-and-place solution for applying die-cut tape strips in medical sample-collector production with new projects in other industries in development.

If you're looking to automated tape application in your industry, you owe it to yourself to talk with a company with

experience that has a wide range of ready solutions and is constantly developing more.

Talk to Enimac!

sales@enimac.it
www.enimac.it





Tape Application Solutions For Your Industry








contact us
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Screwshop

NE Fasteners Limited is a family owned company with over 30 years' experience, primarily specialising in screws fixings & fasteners for the DIY, hardware, building, joinery and furniture manufacturing sectors. NE Fasteners prides itself with offering expertise, competitive prices from local and internationally sourced standard and bespoke products.

More recently, Screwshop has evolved from its established sister company, NE Fasteners and

has also proven a huge success with its online shop. Situated in a 7,000sqft warehouse in Cradley Heath in the West Midlands, we are able to provide a wide range of finishes, including zinc, electro brass, black chrome, satin chrome, bronze and nickel, and packaging options, ensuring that many buyers consider us to be a key and valued supplier.

With friendly and experienced staff, our aim is to offer excellent service with our next day delivery service and give an opportunity for

our customers to let us manage all fixings, fasteners and component requirements competitively.

Screwshop has a trade counter which is open daily 8am-4.30pm.

Have a look at our online shop www.screwshop.co.uk, or give us a call on 0121 559 8866 with your enquiries and we will give you our best attention and prices at all times.



QUALITY HINGES FOR OVER 200 YEARS

Gold & Wassall have been manufacturing hinges for over two centuries, so it's safe to say we know what we're doing. Our team of experts can design and manufacture almost any hinge, for any application. We have made upwards of 250,000 unique hinge designs, with more designs being drawn up each day.

SEE MORE AT GOLDWASSALLHINGES.CO.UK/BESPOKE



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GOLD & WASSALL

EST. 1790

01827 63391 - SALES@GOLDWASSALLHINGES.CO.UK - [@GWHINGES](https://www.instagram.com/gwhinges)

Bespoke hinges are growing in popularity



The ever-growing demand for bespoke products is a challenge Gold & Wassall has accepted with enthusiasm. In the past 12 months, G&W passed the landmark of producing its 250,000th unique hinge design and, with the aid of its expert design team and in-house toolroom, the company shows no signs of stopping there.

Sales Manager Scott Bareham commented, "Of course, we have our huge stock range of hinges – we stock approximately 50,000 hinges on average. However, we see increasing demand every day for bespoke hinges.

"Our in-house toolroom enables us to create almost any piercing pattern and crank pattern, as well as shaping and cut outs.

"When it comes to bigger quantities it's pretty labour intensive to be drilling and countersinking holes to a set pattern, whereas we have the capability to produce a tool specific to the hinge. This reduces labour costs and time significantly.

"Our bespoke service isn't limited to simply the shape and size of the hinge, we are producing a wider variety of finishes to hinges than ever before. A recent project saw the exploration of laser engraving a powder coated hinge with the customer logo, which proved very successful. Producing bespoke hinges is certainly one of our biggest strengths, and the ever-increasing imagination of our customers is what keeps us on our toes on a daily basis."

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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 can also offer to plate standard and special screws. One of their most popular is the 'Touch-Dry' ChemiBlack process, also known as Black Oxide. With this method, the finish is so thin that it doesn't affect any dimensional tolerances. In addition to this, PTS also offers finishes in gold, nickel, silver and zinc. In addition, they can offer patch locking, ideal for vibration resistance and added torque performance. There is also the ability to provide screw modifications to fulfil customer requirements.

"We are constantly adding new products to our offering,

increasing our current ranges as well as adding new products." We try to offer a one stop shop for all your fastener needs. said Andy.

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.

T 01342 410758
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RFID Solutions

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Major operations involve hundreds or thousands of different assets and it's easy for valuable equipment to be misplaced or lost. Taking inventory of your assets is a time-consuming and sometimes inaccurate process. That's where RFID Asset Management comes in.

With all of your assets monitored by RFID tags and readers, you can know exactly what equipment you have available in real-time. That information helps prevent losses and helps you make informed business decisions. But the benefits don't stop there.

With RFID, you can track not only the location of the asset, but also its condition. RFID tags enable you to instantly see when equipment was last inspected and when it's due another inspection or to be replaced. This reduces downtime because you can repair or replace important equipment at the right time. It also streamlines your maintenance process. RFID Asset Management is a solid investment for any business that has a lot of valuable assets to track.

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We are experts in helping businesses improve efficiency through RFID solutions. RFID, which stands for Radio Frequency Identification, is a technology system that can identify an object using radio waves. At TEC-RFID, we believe RFID will bring big advances to retail, warehousing, manufacturing, construction and more. We make it as simple as possible.

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Waste Water & Drainage News

H.D. Services Ltd

Despite the impact of COVID, the last 15 months have been some of our busiest on record. We have seen a significant increase in the number of enquiries and orders from people wanting to install renewable heating options and utilise our expertise in the construction of boreholes for water supply and the installation of independent sewage treatment systems.

As restrictions start to ease, we are looking forward to the Awards season this year where we get to network and socialise with others operating within our industry and recognise their achievements in the areas of innovation, installation, advice and campaigns in the Energy Saving and Efficiency sector awithin the UK.

We managed to secure the REA Pioneer Award in February for our Open-Loop GSHP systems which utilise ground water as a heat source and are hoping for more recognition over the next few months at the regional Energy Efficiency Awards. The purpose of the Awards is to recognise best practice within the industry; the judges will be looking for demonstrable skills, expertise and quality of service. We are particularly excited about moving into our new offices, hopefully before the end of the year. We are not moving far – upstairs as it happens, but the space has been designed to promote a more productive working atmosphere with more usable space including a dedicated tea room for office staff and a meeting room for when clients can come a see us again. We are all very much looking forward to this move and the additional space it offers.

If you would like more information on the services we offer, please visit our website: www.hdservicesltd.co.uk

If you are interested in any of our services, please do not hesitate to contact us on 01494 792000 or at enquiries@thehdgroup.co.uk



With over 30 years experience, we offer bespoke solutions for the domestic market across the South East. Feasibility can usually be determined upon receipt of a site postcode.

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*subject to analysis and suitable filtration / treatment

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Reduce heating bills by up to 50%.

Groundwater can be used as a heat source for an Open-Loop Ground Source Heat Pump which could meet all hot water and heating requirements.

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Your flat roofing systems specialist

Tuff Waterproofing attended the Build Show where they showcased their range of roofing materials, equipment and services. Tuff Waterproofing specialise in manufacturing and supplying heavy-duty GRP waterproof flat roof systems, as well as assistive products. The company was first set up in 2011 and grew out of an installation company that already had 30 years of experience. Heading Tuff Waterproofing is a considerably experienced and knowledgeable team, all of whom have over decades of experience in the industry. Not only does this allow them to supply their unrivalled flat roof systems, but it also means that they can provide top notch training, support and technical advice too. Compared to those who specialise in solely manufacturing or installation, Tuff Waterproofing are able to supply a comprehensive service that works closely with customers and contractors.

We spoke to Gregory Gimenez, Managing Director at Tuff Waterproofing, who explained, "The life blood of Tuff Waterproofing is in our ability to provide exceptional training and professional support system for all of our clients. Our current dedicated team has between 15 and 20 years of experience in development and installation of our products thereby offering the very best in technical advice in the business."

Based in North Yorkshire, Tuff Waterproofing supply to Builders Merchants and Roofing Centres throughout the UK. In addition to being one of the UK's leading providers of waterproof flat roofing systems, they are also incredibly proud to work in collaboration with



Velux with regard to their highly sought after flat roof windows. As one of a select few to be chosen by Velux, a globally recognised multi-national group, they were held in extremely high recognition by those at the Build Show.

As for Tuff Waterproofing's products, they have a wide and varied product range to choose from which were also on display at the trade event. One notable and popular product is the TuffStuff® Grey Slate Top Coat that comes ready mixed for faster application and comes in a 15kg tin that can cover an impressive 30 sq m. Other TuffStuff coats include Basecoat (15kg) and application tools. Tuff Waterproofing also supply catalysts, reinforcing mat, roof trims and much more. Visitors of the UK Construction Week were particularly impressed by their newly launched TuffStuff® 10m² Roof Pack, an extensive one stop solution kit containing everything needed for installing a 10m² flat roof (OSB 3 Board and Trims to be sourced separately).

Contact
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Innovative Polyurethane flat roofing system wins Product of the Year award

Tuff Waterproofing, the UK's leading supplier of heavy-duty GRP waterproof flat roofing systems, launched Tuff Tech Pro® in 2018 to offer a combination of fast installation, ease of use and high performance, which is ideal for the commercial market.

Tuff Tech Pro® VP/UV is a durable, completely seamless waterproof encapsulating membrane which is ideal for new or existing flat roofs, walkways, balconies and gutters. Its advanced fast-curing formulation is quick and easy to apply, significantly reducing time and labour on site. Available with installation training on request, the product is non-hazardous and can be applied in damp atmosphere.

Tuff Tech Pro® VP/UV is completely



dry within eight hours and fully cured within 24 hours to form a totally waterproof membrane across the whole of the application area. Brush or roller applied, the solution is designed for excellent adhesion to a range of substrates, including bitumen membranes, asphalt, metals, brick and concrete. It has excellent wetting out and moulding capabilities to accommodate complex shapes and details. Roof penetrations, ventilation and cooling plant can all be sealed and new plant can be easily accommodated.

A Tuff Tech Pro® VP/UV is a high-build, elastomeric, moisture-triggered polyurethane membrane comprising three layers of advanced polyurethanes incorporating a separate technically advanced reinforcement layer. It can be recoated at any time prior to the end of its maintenance life, thus extending its working life indefinitely. Training is available at your local stockist upon request.

Contact
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www.tuffstuff.co.uk

TuffTechPRO

Protect your investment

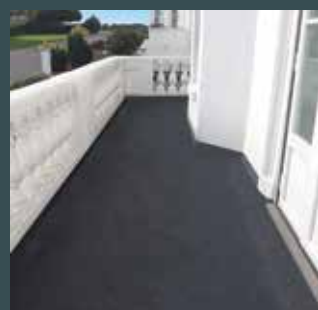
Tuff Waterproofing launches new Polyurethane flat roofing system for commercial market

Tuff Waterproofing, the UK's leading supplier of heavy-duty GRP waterproof flat roofing, has launched a new system offering a combination of fast installation, ease of use and high performance which is ideal for the commercial market.

Tuff Tech Pro VP/UV is a durable, completely seamless waterproof encapsulating membrane which is ideal for new or existing flat roofs, walkways, balconies and gutters. Its advanced fast-curing formulation is quick and easy to apply, significantly reducing time and labour on site. Available with installation training on request, the product is non-hazardous and can be applied in damp atmosphere.

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TuffStuff® is the UK's premium designer, manufacturer and supplier of heavy-duty GRP waterproof flat roofing systems.

From our bespoke premises in North Yorkshire, we supply our products through a dedicated Stockist network located throughout the country.

TuffStuff® has a dedicated product development team that work closely with customers and our own UK-based manufacturing facility to produce an evolving product range that is suitable for multiple flat roof applications.

Please visit www.tuffstuff.co.uk

Quickline Introduces The Vertimag Automatic Vertical Lift Module (VLM)



system can be supplied in 15 models, 6 different types of picking bay (Ergo-Tech, single internal, double internal, single external, double external, removable) and 120 tray combinations making it a truly customisable system to meet your present, and future, storage demands.

The Vertimag VLM is managed by software developed by Ferretto Group which easily integrates with corporate management systems. The management software has been designed and tested for robustness and includes

maintenance algorithms to improve system uptime. To enhance its useability, the system has a user friendly and customizable dashboard through which it is possible to quickly check the status of all the machines, dynamically manage the compartments of the trays, and monitor in real time the stock levels and the position of items in the trays.

With its countless operational benefits, the Vertimag VLM solution is one of the safest, most efficient and ergonomic picking systems on the

market. It benefits from 90% space optimisation to reduce the storage footprint and offers one of the widest range of tray combinations on the market. It provides the ideal solution for the storage and management of goods, enabling businesses to improve workflow and warehouse efficiency, whilst providing optimised space management.

For more information about the Vertimag VLM visit www.quicklinestorage.co.uk

A number of factors, such as a need for additional space, decreasing staff levels and an increase in ecommerce accelerated by Covid, are leading to companies reviewing their current warehouse operation and embracing automated warehouse systems.

To meet the needs of this demanding and ever-changing market even more effectively, Quickline can introduce the Vertimag VLM, which provides efficient storage solutions whilst reducing the storage footprint, enhancing operator safety and increasing pick speed and accuracy.

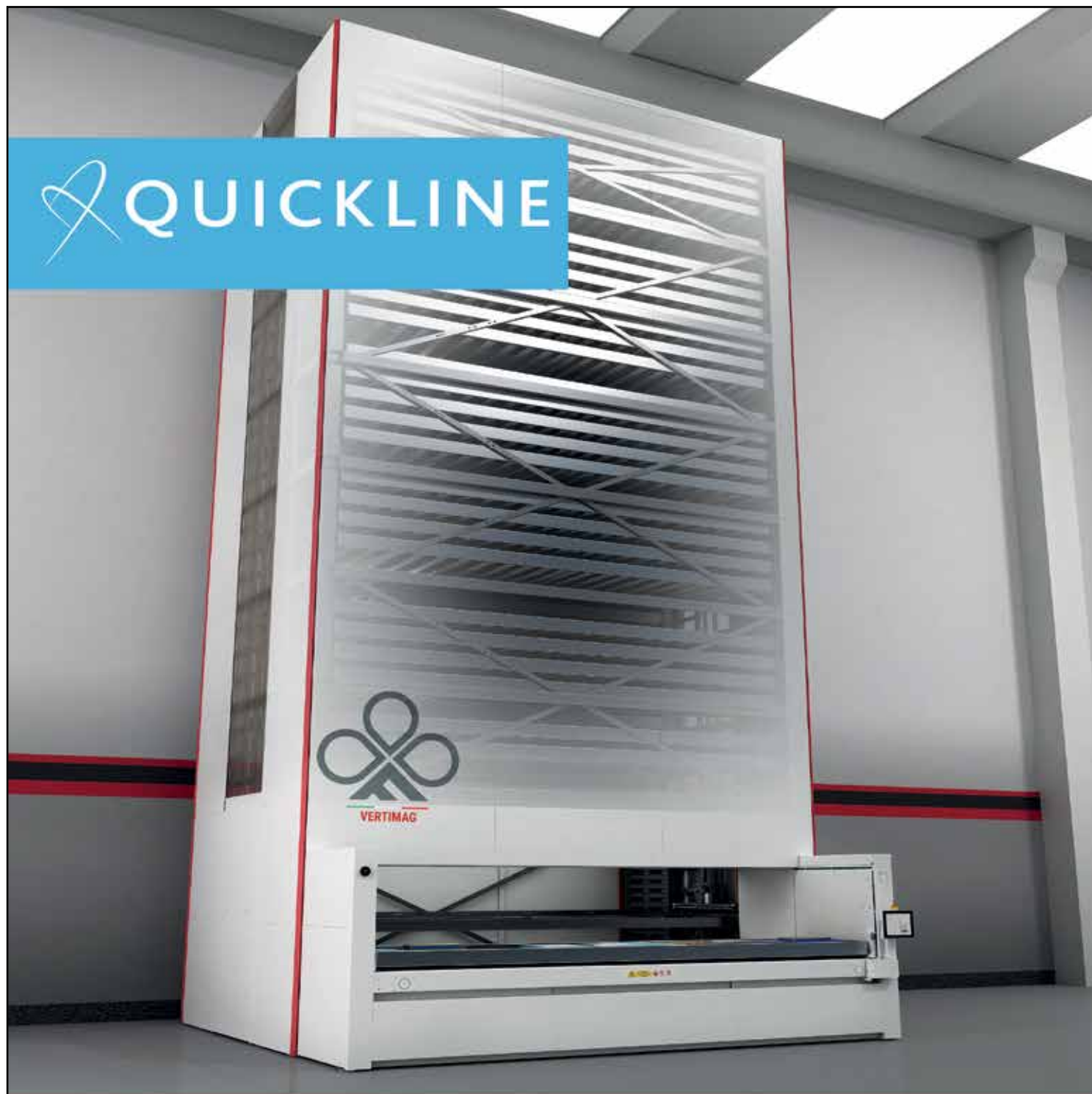
Not only does the Vertimag VLM system maximise storage capacity and manage chaotic flows, it also enables real-time and accurate inventory control, speeds up preparation of orders and decreases errors. On top of this, the system also provides a range of benefits for the operator, such as a user-friendly interface, an ergonomic picking bay to simplify picking and stock management, and enhanced safety elements. All of these lead to an improved user experience, which is further enhanced through a wide range of accessories to optimise working conditions, including a sliding console, a trolley for tray removal, laser pointer, alphanumeric LED bar, barcode reader, piece counting scale and label printer.

Furthermore, the Vertimag system can be supplied with Ergo-Tech, a Ferretto Group exclusive. The Ergo-Tech system houses a second lift within the structure which retrieves goods for the next pick – all whilst the operator is completing the fulfilment from the first tray. The location of the Ergo-Tech device within the structure makes it possible to occupy the same footprint of a typical internal bay while allowing the flow of a double bay system, with greater flexibility in terms of storage capacity as the only limitations on height is that of the warehouse.

Because the system operates by lifting the second tray, the Ergo-Tech module allows the storage of goods in different formats and sizes, with a product height of up to 400 mm. The systems safety features monitor the incoming goods to prevent any risks which may result from trying to store unsuitable items, whilst also scanning the height of the material to ensure the most suitable and convenient storage location within the VLM.

Additionally, the Ergo-Tech system guarantees safety by ensuring the operator always performs the picking at the same ergonomic height, thus reducing the risk of potential injuries from unnecessary lifting or bending movements. The picking bay is also equipped with safety barriers and an automatic closing door, which operates when the vertical lift is in motion or when the system is not in use. The safety of the operator is guaranteed, the goods are protected, and the noise in the work area is significantly reduced. LED lights also provide appropriate lighting during picking operations, especially when the lighting conditions are not optimal.

Another key benefit of the Vertimag VLM is the flexibility of its storage configuration. It is available in heights from 3 to 12 metres, with a maximum capacity of 70,000 kg and the ability to store goods of any format, weight and size up to a height of 695 mm. In addition, the



VERTIMAG VLM - Reduce your footprint by 1/10th

The innovative Vertimag Vertical Lift Module (VLM) storage system maximises the height of the warehouse whilst reducing the footprint by 1/10th.

The result? Increased picking productivity, reduced handling errors, maximised product security and improved stock management.

Visit www.quicklinestorage.co.uk or call 0113 880 0866 to find out more.

Quickline are exclusive UK suppliers of Ferretto systems

