

Business and Industry today

Tel: 0121 550 7510 • April • Issue 379

www.businessandindustrytoday.co.uk

Search for us on LinkedIn  Follow us on Twitter  @bait_uk

Download our iOS app

Inside this issue:



Sustainability Today

See pagesST I-XII



AdCo

See them on page9



Stelling Properties

See them on pageST VI



BVC Quirepace

See them on page15

B&I
today

Interface

The World Leader in Force Measurement

Force, torque and pressure measurement

Interface Force Measurements has been supporting UK industry with the highest quality force, torque and pressure sensors for more than 25 years.

You can benefit from our experience whenever you contact us about your next measurement application, experience gained helping designers and engineers across multiple industrial sectors.

We'll use our experience and product knowledge to help you select the best sensors for your application from our wide range of sensors from some of the world's best sensor manufacturers, including:

- **Interface Inc** – single, dual, 3 and 6 axis load cells and torque transducers
- **AMTI** – six-axis load cells and force plates

- **GP50** – pressure and temperature sensors for oil/gas, aerospace, automotive food/beverage and general industry
- **DDM** – miniature pressure sensors for automotive R&D
- **XSensor** – pressure mapping systems for bed/mattress, seating, automotive R&D, tire testing applications and impact testing for seats, airbags, helmet and protective equipment

We can also help with your data collection needs with our range of amplifiers, displays and software what will work with our and other manufacturers' sensors.

So, if you have a force, torque or pressure measurement challenge that you'd like our help with, please contact us.

T 01344 776666
info@interface.uk.com
www.interfaceforce.co.uk



Are you properly prepared in case of an emergency?

Aqua Safety Showers can keep your workers safe with our wide range of products and units available. For a bespoke quotation or free site survey, please get in touch with our dedicated sales team today.

T +44 (0)1942 318096
sales@aqua-safety.com
www.facebook.com/aquasafetyshowers/
www.linkedin.com/company/aqua-safety-showers-international-ltd
www.youtube.com/channel/UC2leWZz0IQDOrQiWVGYtYRw

Interface

The World Leader in Force Measurement

Automotive R&D

Whatever you need to measure
We have the sensors



FORCE • TORQUE • PRESSURE


+44 (0)1344 776666
info@interface.uk.com
www.interfaceforce.co.uk



For demanding applications!

- FROM MICRO LITRE PER MINUTE TO 2,400 LITRE PER MINUTE
- PULSELESS, ACCURATE AND REPRODUCIBLE
- WIDE APPLICATION RANGE EVEN AT >150°C: ΔP 200 BAR
- WIDE CHOICE MATERIALS, INCLUDING PLASTIC!
- WIDE TEMPERATURE RANGE
- SYSTEM PRESSURE UP TO 325 BAR!

Customized pumps for lab, pilot and production.
Also for CIP/SIP/ATEX conditions.

Come see us at CHEMUK
Stand Number J34



LET'S TALK!

suurmond
engineered solutions

SUURMOND.COM

WE ARE THE EXPERTS
WHEN IT COMES TO SPACE...
IN WAREHOUSING THAT IS.

Nene

Warehouse Solutions



WE ARE THE MULTI-AWARD-WINNING EXPERTS

With nearly 50 years of experience in providing market-leading warehouse and storage equipment to businesses across the UK & Ireland, we have the knowledge and expertise required to take your business to the next level.

We help clients by custom designing their storage equipment to suit any application, making maximum use of any space available and guaranteeing that any materials we supply are always of the highest quality. Nene can provide the perfect storage solution to suit your business.

Want to find out more...

Visit www.nene.co.uk or call 01327 300456
or email enquiries@nene.co.uk.



Follow the Herd for complete fleet management outsourcing

In this issue of Business & Industry Today we are proud to announce Herd Group as our Fleet Management Outsourcing Company of the Month.

The Herd Group is a leading expert in the provision and management of commercial vehicles within the rental sector and 'all vehicle' options in the fleet management channel. Established in 2014 under the experienced leadership of CEO, Nigel Schroder, the group has expanded exponentially with a franchise network across 17 locations, from Aberdeen to Dorset and a large portfolio of B2B long term hire customers across a variety of business sectors.

This cutting-edge company offers local van rental hire from Herd Hire, bespoke fleet solutions to corporate and business customers under its Herd Business brand, used vans and commercial vehicles for sale through Herd Approved and a bespoke digital fleet management outsourcing tool: Herd Connect.

The Herd Group hit the business headlines in January this year when it announced a transition to the Herd Group Employee Ownership Trust (HG-EOT). This move allows the Herd Group Team wider employee ownership, further protecting the brand and culture of the group for years to come. Often businesses facing acquisition and mergers, lose core business values and the Herd Group wanted to safeguard all the hard work the group team had achieved.

We spoke to Gemma Dickson, Director of Sales & Marketing, for more information. "At Herd we've spent years building a unique culture which has been built on a passion for Customer CARE and we have a brilliant team that go above and beyond. We don't just supply vehicles but do everything we can to make life easier for businesses, that rely on vans and fleet for profitability and growth."

"We work with every customer to tailor-make a bespoke service level agreement and do whatever it takes to make sure our customers are operational 24/7."

"Our corporate and business clients love the great value, bespoke fleet solutions we deliver: no matter how big, small or demanding your requirements. Whether you have a single van or



Gemma Dickson, Director of Sales & Marketing, Herd Group

a thousand vans, you can scale up or scale down your fleet at any time, flexible and easy: that's our Herd Business approach."

"Our cutting-edge fleet management solution: Herd Connect, makes sure your fleet is always running at optimum capacity."

Herd Connect is an innovator market disruptor: an ingenious new fleet management service for vehicle businesses of any size. With the cost-of-living crisis causing spiralling fuel and energy costs, the automotive industry is facing huge challenges. Herd Connect allows businesses to focus on what they do best: growing the company and looking after customers.

Customers can outsource entire fleet management from acquisition to disposal or opt-in to unplanned maintenance coverage only. This flexible, bespoke service caters to varying business budget priorities, as Gemma elaborates further, "Increasing digitalisation and the capabilities of new technology has led us to launch Herd Connect: a brilliant new fleet management service for companies of any size and sole traders that use light commercial vehicles."

"We offer this service FREE for 12 months, with maintenance and repairs costs reduced by using a network of preferred suppliers. We essentially become the fleet department, bringing a range of cost savings which allow business to focus on growth."

Herd Connect has partnered with Allstar ServicePoint, RAPID Response Tyres, FMG, local vendors and through its own franchise dealers to provide an exceptional support service and repair/maintenance (SMR) management. Customers have quick, reliable access to a streamlined digital solution, offering direct access to a national network of vehicle repairs, minimising valuable downtime.

Herd Connect
BRILLIANT FLEET MANAGEMENT

**Everything for your fleet.
Completely taken care of.**

herdconnect.co.uk 0800 066 3379

FREE
for 12 months
No contract

Herd GROUP
BRILLIANT VAN & FLEET SOLUTIONS

This complete cloud fleet management system offers expertise across fleet consultancy, fleet compliance, asset lifeline, full servicing and maintenance, smart fuel management, accident management, de-fleeting, refurb and disposal, to driver licence checking. This one-stop solutions package means businesses never need to worry about missing MOTs or vehicle repairs after accidents, giving added reassurance that all vehicles are fully DVLA-compliant.

With a handy Cloud-based customer dashboard covering every movement and aspect of the fleet, managers can access data at any point, from any location. The additional portable drivers' vehicle App is fully integrated with the online fleet management system: prompting daily and weekly driver checks.

Herd Connect gives expert insider knowledge access to cost-effective options for routine and unexpected vehicle repairs, allowing fleets to get vehicles back on the road again.

Herd Connect is particularly indispensable to fleets of 50 vehicles or less, as Gemma details, "Herd Connect fits a niche market- our customers were telling us that they needed a one-stop fleet management system to cover the entire vehicle compliance and repair and maintenance aspects. Smaller companies are often drowning in paperwork; neglecting aspects like running business websites and social media, which in a digital, competitive era are essential. Herd Connect runs everything smoothly, allowing smaller companies to focus on customer service and marketing, with added assurance that everything else is taken care of."

Herd Connect looks after the smaller and larger businesses, as part of its primary CARE focus and with widening concerns about climate

control, the Herd Group wants to look after the planet too. With a wide-range of Herd Zero fully electric vehicles available for fleet transitions to net-zero emissions, businesses can further corporate responsibility through environmental sustainability, as Gemma outlines, "Going green should be easy but there are things to consider: do you have existing charging stations? Who is responsible for charging vehicles daily? What is your Health & Safety policy on car parks? With reversal-only guidelines, you need to consider charging station positions. We have

many London-based companies who have already made a full transition and we are using them as case-studies. We offer full consultation on electric vehicle transition, from a slow drip-feed approach for beginners to trials for curious companies. We can supply charging stations as part of our Herd Zero package."

The Herd Group was delighted to receive our Company of the Month Award and are looking forward to a bright future over the coming months, "Our culture and CARE ethos is at the pinacol of everything we do, and we will continue to protect that along with our exclusive customer base. Our strong relationship with Renault allows us to support our customers with vehicles and we'll continue to grow and strengthen our franchise network."

If you're interested in becoming a franchise partner or signing up to the new indispensable Herd Connect service, see the details below:
T 01372 747333
M 07534 724908
Gemma.dickson@herdgroup.co.uk
<https://herdgroup.co.uk>
<https://herdconnect.co.uk>
<https://herdapproved.co.uk>
<https://myherd.co.uk>
<https://herdzero.co.uk>



Get more done
BRILLIANT VAN & FLEET SOLUTIONS

0800 066 3374

www.herdgroup.co.uk



Innovative solutions for machine safety – advantages for productivity



Schmersal at Hannover Messe 2023: new developments for safety and automation

The Schmersal Group attended the Hannover Messe trade fair to present its latest innovations. In Hall 09, Stand D09, the company put the focus this year on automation and safety solutions for intralogistics as well as for packaging and food processing machines.

The growing volume of online trade is a key driver for developments in intralogistics, which requires increasing process automation and efficient and safe plant technology. Using a model that depicts different process steps and technologies, including filling, conveyor and palletising technology as well as robotics, Schmersal demonstrated components and systems that not only contribute to occupational safety, but that meet the stringent requirements of intralogistics and packaging industry in terms of fail-safe operation and plant productivity.

Intelligent solenoid interlocks

A robot carrying out palletisation operations was safeguarded on the Schmersal stand with solenoid interlocks that keep guard doors locked until hazardous movements have come to a halt. Intelligent safety components, such as the AZM201 solenoid interlock, help to minimise downtime thanks to comprehensive diagnosis functions.

New Time-of-Flight procedure

Schmersal demonstrated a new technology at Hannover Messe for the first time – a technology in which the position and stacking height of boxes/crates palletised by robots is monitored by a ToF camera. The Time-of-Flight (ToF) procedure can be used to create a 3D image of the scene that is available as a point cloud. The scene can then be used to determine the positions and dimensions of objects. Software that can be used to define and monitor three-dimensional zones in space opens up a wide range of automation solutions in logistics and production-line production.

ToF cameras enable efficient, real-time data evaluation, such as when carrying out measurement tasks in fill level monitoring or volume determination of piece goods.

New magnet track sensor box

Electric monorail conveyors are used to transport workpieces, tools and other purchased parts in almost every industry. Schmersal showcased a solution for precisely this application at Hannover Messe: the SSB-R sensor box is used to define route sections for speed regulation for electric monorail conveyors in a manner that is cost efficient and maintenance free. It also allows park positions to be approached with careful accuracy.

New command and signalling devices in hygienic design

Also new: The H series from Schmersal was showcased at Hannover Messe as a full range of command and signalling devices for hygiene-sensitive applications, particularly in food processing.

Contact: Steve Watkins, Marketing & Business Development
T 01684 571980
swatkins@schmersal.com
www.schmersal.co.uk

Samson Pallet Stability announces launch

Samson Pallet Stability (formerly known as Samuel Grant (Sheffield)) is delighted to announce its launch.

Following the success of the Queen's Award-winning Samson Nano pallet wrapping system, the company has been steadily working over the last ten years towards becoming the UK's Centre of Excellence for pallet stability, investing heavily in equipment and expertise.

The Samson Nano is a unique offering, which gives customers the chance to wrap pallets to the highest standard capex free, with the machine, service and maintenance, and all the film, included in a fixed price per wrapped pallet.

The Slingshot was added in 2020, and is a horizontal pallet

testing table which can replicate the inertia of a braking vehicle to 0.8G and allow customers to certify their loads to exacting EUMOS standards.

In addition, the expertise will remain in Sheffield for strapping for load stability, including consumables, tools and machinery. This includes the popular 'swap and drop' service for tools, eliminating downtime.

Andrew Grant, Managing Director of Samuel Grant Group, said of the launch, "For a long time Samuel Grant Sheffield has been the market leader in pallet excellence. The new company separates Samson Pallet Stability from the general packaging provided from Samuel Grant (Leeds and North



East), and gives us more scope to grow and develop our specialist products and services."

Samson Pallet Stability is a proud member of the CILT (Chartered Institute for Logistics and Transport) and the Cold Chain Federation. It welcomes approaches for any company wanting to get their palletised goods to their destination safely and in perfect condition.

Samson Pallet Stability remains a member of the Samuel Grant Group.

www.samuelgrant.co.uk



THE NEW BRADSHAW T800 TOW TRACTOR

Towing just got easier with the new Bradshaw T800 with improved ride, handling, comfort and maintenance.

Fully electric, the T800 8-tonne tow tractor delivers efficient towing performance for all your factory handling solutions.

01780 782 621
WWW.BRADSHAWEV.COM
ENQUIRIES@BRADSHAWEV.COM

BRADSHAW
ELECTRIC • VEHICLES

New compact safety light barriers for the food processing industry

SLB440 series now in hygienic design with IP69 degree of protection

Schmersal has developed a new series of safety light barriers that are suitable for hygiene-sensitive applications in the packaging and food-processing industries, such as milk and meat processing. With a diameter of 62mm and a height of 115mm, the single-beam light barriers in the SLB series are extremely compact. This makes them ideal for thermoforming machinery for food packaging, for use on cutting equipment or on other machinery with narrow installation spaces.

SLB440 light barriers with IP69 degree of protection

SLB440 light barriers have been designed along the lines of the SLC/SLG440 IP69 safety light curtains and grids, which have been widely used in the food-processing and packaging industries for years. The new single-beam light barriers have been designed to cope with the high levels of stress placed upon them by the cleaning processes that are commonplace to these industries.

Thanks to a sophisticated, detailed design, the SLB440 series achieves IP69 degree of protection and is thus protected against ingress of water during close-range high-pressure and high-temperature spray downs. This means that the external and internal



seals on this contactless active protective device (AOPD) meet very strict requirements and are able to withstand frequent cleaning with alkali solutions, foam, hot steam or high-pressure jets.

Stainless steel locking caps – PC safety tubes

The new AOPD product line has also been created based on the principles of hygienic design. The locking caps on the SLB440

are made of stainless steel (V4A) as are the cable inlet, pressure equalisation diaphragm and fastening parts. Made of polycarbonate (PC), the transparent protective tubes not only offer high resistance to cleaning agents, but also withstand strong mechanical loads. If spray lances should accidentally strike the SLC440 IP69's enclosure during pressure washing in food production, the safety and protection function will continue to work thanks to the robust protective tubes. The materials thus ensure higher process reliability as well as a lengthy safety light barrier service life. The independent testing laboratory Ecolab has also verified the high resistance of the materials used in these components.

Integrated evaluation

The AOPD series features integrated evaluation with two safety outputs that are connected directly to the higher-level control system. Additional features of this AOPD series are the integrated setup aid and straightforward connection option with M12 connector (4-pole or 5-pole). The SLB440 light barrier achieves Performance Level PLe, type 4.

Contact: Steve Watkins, Marketing & Business Development

T 01684 571980

swatkins@schmersal.com

www.schmersal.co.uk

VIGILEX®
SAFETY PROTECTION by STI

EXPLOSION PROTECTION

Flameless venting
Explosion Isolation Valve
Diverter
Explosion vent panel Single curved
Explosion vent panel Single flat

MacCannell and Sons Ltd
Stratford, UNITED KINGDOM

www.vigilexuk.com

e-mail: info@maccannellandsons.co.uk

Extreme heat PPE

EDC Protection is the market leader in France for personal protective equipment (PPE) designed to protect personnel working in extreme heat conditions.

EDC Protection offers the most innovative and reliable thermal protection on the French market, incorporating cutting-edge technologies tested and approved in its laboratory. As a specialist, it has acquired extensive knowledge of thermal risks and is able to offer end-users the solutions best suited to the constraints of their professions.

EDC Protection aluminised garments are used throughout the steel, foundry, glassware, cement and fire services industries, and even by volcanologists. Their role is to protect personnel at work against flames, intense heat and splashes of molten materials of up to 2,000 °C.

In order to provide protection for personnel subject to identified risks, EDC Protection offers a complete range of Category 2 or 3 PPE that meets the specific protection standards.



Contact: Alan Vickerstaff
M 07710 098958
alan.vickerstaff@edc-protection.com
www.edc-protection.com/en/

Warehouse & Logistics

Paperless defect reporting and fleet maintenance all for £1 per vehicle, per week

Try free for 30 days
checkedsafe.com

SUPPLY CHAIN EXCELLENCE AWARDS 2022
BIBAs NTA | NATIONAL TRANSPORT AWARDS
Fleet Innovation of the Year 2022 Innovative Business of the Year 2022 Transport Supplier of the Year 2019

CheckedSafe®

Ask us about our new License Check service



Sustainable packaging



Since 1994 Allpack has been providing sustainable packaging supplies and solutions to their wide range of customers, who know they are using industry-recognised products, designed specifically for their intended sector and application.

A-Rated BRC Level for Food Packaging Storage & Distribution has recently been obtained by Allpack's National Distribution Centre. This industry-recognised accreditation enhances and solidifies to customers that Allpack warehoused products comply with stringent food storage and distribution packaging standards and guidelines.

Sustainability is a key focus for Allpack, as we are proud to be a Forest Stewardship Council® (FSC) certified business, ensuring we source, supply and deliver sustainable solutions, to our business partners and customers. We work hard to select suppliers who manufacture products with at least 30% recycled content and are 100% recyclable making them Plastic Tax Compliant, which is better for you, your customers, and the environment.

Contact Allpack today at 01543 396888, or email: sales@allpack.uk.com to discuss your packaging enquiries and see how we can assist you in selecting sustainable and greener packaging products, or visit: www.allpack.uk.com to view our range of market-leading sustainable packaging products and brands.

The Business Show 2022 Review – Top Exhibitors

The Business Show 2022

Europe's largest business show was back for 2022, returning to London's ExCeL from 16-17 November. Helping SMEs and startups grow and develop, the 44th edition of the show focused on getting Britain back to business by revealing the secrets of business adaptation and innovation.

Built from the ground up to equip, educate and encourage the small businesses and entrepreneurs of the world, The Business Show gathers and showcases the knowledge and services of hundreds of business experts and leaders. Jam-packed with everything an entrepreneur or small business needs to succeed, with a mind-boggling 750 exhibitors, 200 inspiring seminars and unmissable masterclasses.

Visitors could meet over 750 industry leading exhibitors showcasing all the latest products and services needed to take their business to the next level. Whether they need help with their website and advertising their business, want to learn the latest in HR and recruitment or find the latest products to help keep their business safety, the show had visitors' needs covered.

The industry's most influential figures stepped up to



deliver keynote sessions, covering everything from the trends driving the industry, to building a brand online. Visitors could listen in as top tips and tricks are revealed, providing them with a wealth of new knowledge to feed into their business.

The Business Show 2023 returns this year to London's ExCeL from 22-23 November 2023. This is our pick of the best exhibitors from last year's event. Further details can be found on this page and the next two.

www.greatbritishbusinessshow.co.uk

BULK MOBILES™

BULK MOBILES™, a trading name of BOWSE CONSULTANCY LIMITED company, expanding and later altering its formation as a brokerage connector to many experienced wholesalers and cellular distributors. With a wholesale network partner system and directors with 20 years' worth of combined tech sourcing experience, we assure you our best expertise in global sourcing products. We are global online traders sourcing premium branded consumer goods and electronics, without the premium price tag. All of our items are A* factory with box new and sealed.



Many of the retailers who have been able to source the same products retail them at highly inflated prices to justify such premium brands or products, retailing them further at their flagship stores at non fixed prices. We however source in extreme bulk directly from major

ex-contract companies being able to pass on these discounts to our end consumers.

At Bulk Mobiles we also provide extended support and consultations to clients looking to start an online business reselling electronics, offering online

courses for Amazon FBA and Dropshipping which you can use for your own business or reselling our mobile phones, yielding desirable profits.

T +44 (0)3330 115875
sales@bulkmobiles.co.uk
www.bulkmobiles.co.uk

STARLIGHT DIGITAL

Are you looking to take your business to the next level? Look no further than Starlight-Digital.

We're experts in helping businesses like yours reach their full potential through strategic digital marketing campaigns. With our cutting-edge technology and deep expertise, we can help you get the results you need to succeed in today's competitive landscape.

Our team of experienced professionals will work closely with you to develop a customised plan that fits your specific goals and budget. From pay-per-click advertising to social media marketing and content creation, we have the skills and expertise to help you achieve your goals.

We understand that every business is unique, which is why we have a personalised approach for each and every one of our clients. Whether you're a small business just starting out or a large corporation looking to expand your online presence, we can help you get the results you need.

So why wait? Contact Starlight-Digital today and let us help you take your business to the next level.

Call today on 020 3376 7800, or email us at: hello@starlight-digital.com

STARLIGHT DIGITAL

Want to Grow Your Business?



We partner with clients all over the world to deliver data-driven digital marketing strategies. No matter your needs, whether it's sales growth, increasing ROI, generating leads, or building a brand; we'll create a bespoke solution just for you.

Call us today on 020 3376 7800, or email us at hello@starlight-digital.com to see how we can help!

PPC • SOCIAL MEDIA • AMAZON • APPS

WWW.STARLIGHT-DIGITAL.COM

We do more with Salesforce

Are you overwhelmed by the complexity of your Salesforce system, or simply don't know where to begin?

Whether you are looking to implement the world's leading Customer Relationship Management software from scratch or wanting to maximise return on investment with your current Salesforce instance – we are here to help you leverage all of Salesforce's brilliant functionality and accelerate efficiency in your organisation.

Performa IT is one of the UK's top Salesforce registered consulting partners, with over 80 years of combined experience in an extensive range of verticals. Our specialist team is equipped to deliver any service, from a simple Quick-Start implementation, to flexible Salesforce support and large scale digital transformation projects. We are at the forefront of international security standards, holding Cyber Essentials Plus and ISO 9001:2015,



27001:2015 accreditations. Performa IT was recently awarded our Investors in People Gold and Carbon Neutral status, so you can be confident that your organisation will receive the best quality care from our trusted Salesforce experts.

Email us at: hello@performa-it.co.uk or give us a call on 0117 230 2390 for complimentary expert advice or if you simply would like to find out more!

Work smarter with RLJB Financial & Business Advisor

RLJB Business Consulting is Directed by senior finance professional, Roy Brown. Boasting significant experience and expertise in a variety of business sectors, Roy's background of being a finance director working with a fast-moving entrepreneurial managing director has given him the acute skills and insight that helped to turn a small American owned business into a complex worldwide organisation now making over £4.5 million profit.

Whether you are a large cooperation, or a smaller SME, RLJB can help to support your business through change, growth, crises or decline. Roy and his team work quickly to understand both the day to day and long-term operations to enable an easy partnership that is successful in driving your business forward. This is achieved through providing skilled experienced accountancy advice, bookkeeping and business strategy.

Exhibiting at The Business Show 2022 gifted Roy the opportunity to meet many entrepreneurs from varying industries. Attendees and other like-minded professionals took some valuable advice and lessons from what RLJB had to share at the Show, as Roy discussed and shared his thoughts on the challenges businesses face when looking for a



professional financial advisor.

For an experienced and skilled finance and tax adviser who will understand your company's vision and goals, get in touch with RLJB today.

M 07741 589633
roy@rljbcgulting.co.uk
www.rljbcgulting.co.uk

Providing support and services to maximise growth and realise potential.

Even experienced business owners need a skilled adviser to guide them. With over 30 years of experience working both hands on and strategically I can guide and support you to develop your business structure.



RLJB

FINANCIAL & BUSINESS ADVISOR

Work smarter with RLJB Business Consultancy.

07741 589633
roy@rljbcgulting.co.uk
www.rljbcgulting.co.uk

Blue Diamond Wellbeing: Quality psychotherapy counselling & spas

Blue Diamond Wellbeing has a simple mission and values, that is to provide high level professionals and entrepreneurs lasting positive relief from mental stress, pressure, anxieties and more, no matter what the reason whether personal or professional.

We know right from the outset that a healthy mindset is of great importance for all areas of your life, far more than just material things. When your mind is troubled for whatever reason, over a long time this creates mental and emotional distress and what you need is relief. We believe that dealing with things early on is far better, or if a long time has past, starting now is still necessary; so that you can



live happily, feel more connected to loved ones and enjoy what you do.

Our Ultimate All-Inclusive Mental Wellness Programme is a holistic scientifically proven combination of psychotherapy, mindset coaching and personalised spa treatments, which will bring you rapid reduction in anxiety related stress, an increase in confidence, new skills that prevent mental decline and a much happier you who can reconnect with loved ones and manage issues much better. All while enjoying this process.

Contact
T 0333 444 0917
info@bluediamondwellbeing.co.uk
www.bluediamondwellbeing.co.uk

Finding the best office space for you and your business

Searching for flexible office space can be time consuming and confusing. Love Mondays Office Space is a free independent office consultancy which takes this arduous task off your hands, comparing thousands of properties across the UK.

After your initial consultation, you can expect a detailed report that is specific to you and your business, prioritising location, relevance, space, and budget to ensure your requirements are met. As well as offering you a complete market overview of your options, all of your viewings will be arranged for you, and the Love Mondays team can even be present with you at each visit if required.

Upon finding your dream space, Love Mondays will work on your behalf to negotiate the best price & to achieve the best deal possible, saving you time and money.

Headed by Jimmie Brennan whose years of service in the offices industry has given him an extensive level of experience & skillset means he can dedicate all of his time and resources to you & your business giving you the best and most relevant options.



Love Mondays exhibited at last year's Business Show 2022 in London where Jimmie and his team were excited to share all their latest tips and tricks with potential and new customers on finding the best office space for their needs.

And to top it off, attendees were overjoyed to hear that the company does not charge for this service, just great value expertise that drive results.

Contact
T 0208 050 6864
info@LoveMondaysOfficeSpace.com
www.lovemondaysofficespace.com

Do you need office space..?



With so many options available, we understand that finding the right office space can be a daunting task.

We know that the right space can make all the difference to you and your business. That's where we come in - your **FREE** independent office space expert. Let us help you navigate the flexible office space market with ease, so you can focus on what really matters - growing your business.

Our expertise includes, Saving you time and money by doing the heavy lifting for you. Providing expert advice and support in negotiations, ensuring you get the best deal possible. With our complete market overview, you'll have access to a wide range of options.

Whether you're looking for serviced offices, flexible office space, or all-inclusive office space, we've got you covered. We offer a **FREE** independent office finding consultancy, so you can take advantage of our services without any added costs. Our service is designed to take the stress out of finding your next workspace.

So, don't settle for a subpar office space - let us help you Love Mondays again.

Call us for a no obligation consultation today
020 8050 6864 | LoveMondaysOfficeSpace.com
This service is 100% FREE & we serve the entire U.K.

BusinessandIndustry today

Boost your business with expert web development

Since 2019, DBETA has been at the forefront of the industry in delivering creative, technical, and strategic web design. Its team of 15 experts comprised of SEO specialists, web developers, graphic designers, and project managers are equipped with all the best skills to ensure your brand stands out from the crowd.

Creating websites that win, DBETA only work on what matters. Whatever your vision for your company's online presence, DBETA will work with you to design the perfect content strategy that includes integration and customisation of CRM software solutions to manage leads, clients, and projects, search engine optimisation and content strategy to drive traffic, and a complete overhaul of your existing web solutions offering a full turn key design and development solution helping you to discover new opportunities and ideas.

Maybe you have never thought if your website is user-friendly on a mobile phone? Or, have you struggled to display an extensive gallery of all your products and services in a way that looks attractive



and easy to navigate?

DBETA will help you to streamline your sales and lead management processes through its team of specialists who will work with you to create a successful strategy that wins.

T 0207 164 69882
info@dbeta.co.uk
www.dbeta.co.uk

Anthony Pollock and Associates

The Business Show at the ExCeL centre between 15-16th of November 2022 was a wonderful energetic event and the first time we had exhibited at any show. I think this reflected a desire by everyone who attended to put COVID behind them and enjoy again engaging with face-to-face meetings.

The location of our stand was superb and provided a steady stream of visitors. The bar code reader was a quick and easy way for recording visitors' details for follow up alongside collecting traditional business cards.

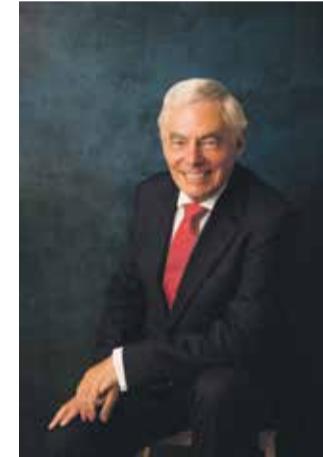
We were able to speak to over 100 people over the two days on our business themes of:

- The pitfalls faced by those starting in business.
- The issues involved in fundraising.

- The need for businesses to build reliable business systems.
- The problems faced by rapidly growing a business and their solutions.
- The need to properly plan for a successful exit at least three years beforehand.

The show was a delightful time for team building and we thoroughly enjoyed speaking to not only attendees but also other exhibitors.

For further details, please contact through <https://calendly.com/anthony-pollock/free-the-business-show-follow-up>



Anthony Pollock and Associates

Frank eXchange

Before Frank eXchange, founder John Hall spent over 15 years working with leading corporate foreign exchange providers in sales and leadership roles. During his career he noticed how a sizeable percentage of new customers left for different suppliers before the end of their first year. The main reason for this was margin creep – being enticed in on one mark-up, which then gradually increases, eating into profits and increasing cost for the customers. John wanted to solve this, which is when Frank eXchange was born.



Our core value is TRANSPARENCY, and this makes us different from other providers and banks. We aim to show you the fees others keep hidden. We show our mark up so you can see how the cost of your transaction is made up. This means you always get a consistent, fair, and competitive rate whether it is your first trade with us, or you've been with us for years.

Our customers trust our rates because of our transparency, and this is underlined by our high customer retention rates. Partner that with our personal service and easy-to-use platform, we believe we're truly shaking up the industry.

Frank eXchange transacting currency transparently, to guarantee consistent, fair, and competitive rates with every transaction.

M: 07441 910897
E: FX-Admin@frank-exchange.com
W: www.frank-exchange.com

TRANSPARENT, PAINLESS INTERNATIONAL PAYMENT SERVICES

We show you the fees others hide in their rates

Business FX | Personal FX
Competitive, Transparent Foreign Exchange Rates
Ideal for: Paying overseas invoices, Receiving overseas invoices, Securing Forward Contracts
Scan to get a free quote!
Specifically for your needs



The Business Show 2022 Review – Top Exhibitors

Oracle Solicitors

We are an internationally recognised firm that has gained a reputation for excellence. Oracle was founded on the principle of providing quality services.

We offer a comprehensive range of services to our corporate clients, including:

- Aviation Law
- Commercial Services
- Regulatory Law
- Commercial Property
- Employment Law
- Commercial Litigation

About Us

Oracle is a well-established, multi-jurisdictional law firm with offices across the globe delivering commercial advice and legal services to companies of various sizes.

Through our company's growth we have built an excellent commercial team. The team is the heartbeat of the firm and have helped support the legal needs of businesses across a variety of sectors. Our clients come to Oracle for clear advice, expert analysis and resolute focus to solve each unique legal problem.

Commercial Services

Our commercial team advise companies from large corporations to SMEs. We protect our clients' interests



by implementing legal tools and steering towards their commercial goals. With experts across the business sector, we understand commercial objectives whilst managing risk.

Our services add value to businesses, from ensuring that commercial contracts represent their requirements, to advising on large mergers.

Quote 'The Business Show' to ensure you receive discounted service fees.

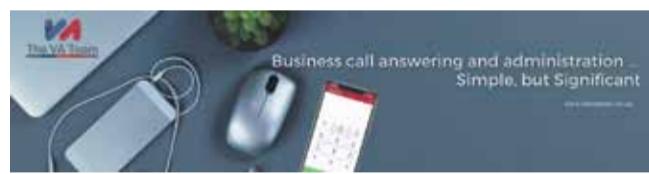
T 020 3051 5060
info@oraclesolicitors.co.uk

Discover a world of efficiency with The VA Team

In today's fast-paced business landscape, time is of the essence. Streamlining operations, increasing productivity, and maintaining a work-life balance is paramount to success. Enter The VA Team (www.theteam.co.uk), a professional virtual assistant & call answering service revolutionising how businesses and entrepreneurs manage their workload.

The VA Team is an innovative solution to the ever-growing challenges of time management and task delegation. They offer diverse services, from administrative support and diary management to virtual reception and call answering. By harnessing the expertise of their highly skilled virtual assistants, businesses can thrive and focus on their core objectives.

What sets The VA Team apart is



their commitment to understanding each client's unique requirements. They tailor their services to ensure maximum efficiency, saving time and resources that can be better utilised elsewhere. With a proven track record of delivering exceptional results, The VA Team has become a go-to source for businesses across various industries.

Intrigued? A discovery call with The VA Team is just what you need. This no-obligation conversation allows



you to explore how their virtual assistant services can empower your business. Take the first step towards enhanced productivity and success by visiting: www.theteam.co.uk or scanning the QRcode and booking your discovery call today.

Don't let your business suffer from an overwhelming workload.

Delegate, streamline and conquer with The VA Team – your key to unlocking a world of efficiency.

McGin-Lee HR Ltd

McGin-Lee HR Ltd is a multi-award winning independent HR Consultancy, owned and run by Sam Lee (MCIPD). Focusing on affordable outcomes and deliverables for businesses, it has a solution for any HR need.

With McGin-Lee HR, you'll get commercial, holistic, fit for (your) purpose support whenever you need it.

The Business Show was a key event for McGin-Lee HR Ltd in 2022, an opportunity to mix with other businesses and visitors to the show, and to share our approach to HR. Sam signed up to deliver a talk on Day 2, and was also a runner-up for the Female Leader of the Year Award at the Show.

To also hear that our stand was selected as an Exhibitor of the Event is absolutely incredible and a very proud moment! With so many amazing stands, the team is thrilled to have been selected as one of the Best.

Sam says, "We wanted our stand to represent our brand and we set about creating something unique with Mulini Exhibitions & Displays Services. The finished article is amazing, and over the 2 days we got so many compliments about it."

We're looking forward to exhibiting again later in 2023!

We put the HUMAN into Human Resources.

Please see our contact details below, and links to our social media:
<https://mcgin-leehr.co.uk>
www.linkedin.com/company/mcgin-lee-hr-ltd
www.facebook.com/SamMcgingleeHR
www.twitter.com/McGinLeeHR
www.instagram.com/mymcgingleehr

Putting the Human into Human Resources

The Secret HR Weapon You Didn't Realise You Needed!

- Reward & Recognition
- Compensation & Benefits
- Induction & Onboarding
 - Attraction & Branding
- Recruitment & Selection
- Compliance

www.McGin-LeeHR.co.uk
01775 888242



C a change in your carbon footprint

Changing for the climate and knowing how to reduce your carbon footprint as a business can be daunting. Rising temperatures, adverse weather conditions, and other unusual weather changes are all a result of increasing CO₂ emissions and can have dramatic effects on your business.

C Free is an environmental consultancy that can help SMEs measure, understand, and reduce their carbon footprint. Offering a solution to what seems like opening up a can of worms, C Free does all the hard work for you, helping you take the first steps in your carbon free journey.

Over the years, C Free has helped many businesses through its well-established services that include; Carbon Footprint Calculations, PPN 06/21 Carbon Reduction Plans, Life Cycle Assessments, and even Tree Planting. Alongside these services, C Free will link your business with high-quality climate solutions allowing you to go carbon neutral and set net-zero targets easily and quickly.

C Free was proud to exhibit at The Business Show 2022 as part of the Business Consultancy, Compliance and Sustainability category. The team was able to speak with new and potential customers about how modern data science can be used to calculate their carbon footprints more efficiently.

If you would like to learn more about how C Free can leverage the power of modern data science to establish



tools and routines to calculate your businesses' carbon footprints efficiently, get in touch below.

T 020 8117 7142
info@c-free.co.uk
www.c-free.co.uk

Property Wealth Education

London, UK – with the current cost-of-living crisis affecting so many people, it's more important than ever to consider ways to secure your financial future. And according to Dr. Daniel Moses, a celebrated powerhouse in the investment, property, and personal branding industry: property investment is the key.



At last year's London Business Show at the ExCeL, Dr. Moses shared his inspiring journey from Uber driver to property mogul. He proved that anyone can achieve financial security through property investment, and he founded Property Wealth Education to help others do just that.

Property Wealth Education is a subsidiary of Property Wealth Corporation (PWC) that has quickly become the UK's leading property education company. Their trusted step-by-step educational programme focuses on property investment opportunities and business branding, with courses that include B.R.R.R. (buy, refurbish, rent & refinance), Deal Sourcing, Rent-to-Rent, First-Time Buyer and Everyday Investor, Wealth

Business School for business owners looking to scale their brand on media, wealth and business networking.

Through Property Wealth Education, Dr. Moses has helped countless individuals build generational wealth through property investment and creative cash flow strategies. His expertise has even earned him a spot as a Forbes Councils Coach member: an invitation-only organisation for senior-level executives in the coaching industry.

Dr. Moses is also the host of the Wealth & Business Podcast, where he shares valuable insights on wealth creation and personal branding. He has been featured in CEO Today, Yahoo Finance and Fox News articles and won multiple awards.

Investing in property is a proven way to build long-term wealth, and Property Wealth Education makes it accessible to everyone. With their detailed knowledge and advice, many customers have been able to enter the property market, even during the current cost-of-living crisis.

If you're interested in securing your financial future through property investment, book a free consultation with Property Wealth Education today. Don't wait any longer to start building generational wealth and achieving financial freedom.

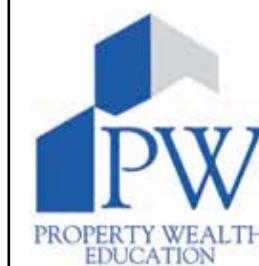
Contact
T 020 7117 2061
admin@propertyhealthcorp.com
www.propertywealthcorp.com
www.propertywe.co.uk

Forbes



DR. DANIEL MOSES
PROPERTY ENTREPRENEUR

Uber Driver to 7-Figure Property Investor & Business Owner, CEO & Founder of Property Wealth Education, The UK's #1 Black Property Influencer, Amazon Best Selling Author, Millionaire Mentor.



Property Wealth Education has helped hundreds of individuals within 24 months of incorporation get onto the property ladder and start building their own property portfolios using creative strategies.

admin@propertyhealthcorp.com
www.propertywealthcorp.com
www.propertywe.co.uk

TYDE expands washroom fill & flush range

TYDE is excited to announce the launch of their new range of Dudley 'Victoria' Outlet Valves.

Along with an improved version of the Dudley cable operated Victoria Valve, the all-new Mechanical Dual Flush Victoria Outlet Valve is now available to be ordered from TYDE's production centre located in the heart of the Midlands.

The new Victoria Valves are both WRAS approved and can be serviced in under 5 minutes providing installers with a real time saving advantage. Both of these high-quality Outlet Valves are fitted with long life silicone seals and a choice of button mounting options.

The new Victoria Valves offer Water saving options with full and reduced flush options as

standard. For maintenance or replacement, the robust but simple to use bayonet fixing enables the valve body to be quickly and simply removed from the cistern making the Victoria Valve fast and simple to install and maintain.

The new Dudley Victoria Valves are excellent additions to TYDE's extensive product range offering both quality and reliability and for



peace of mind, the new Victoria Valves come with a 3 year warranty and can be ordered for next day dispatch. Order yours today!

Print & Packaging



AdCo's HD 250 NV is a true standout among industrial-grade hot melt glue guns, and a go-to tool for contractors and tradesmen in many fields of work.

The "NV" stands for "needle valve," an exclusive AdCo design feature which allows the user to lay down precise, uniform glue lines, with perfect cut-offs and no more dripping and stringing!

This exceptional quality tool sports cushion-padded grips, an easy-squeeze trigger, and a removable wire base stand which makes it easy to use in any work environment.

The 225 watt PTC heating system allows for quick heat-up times to its preset temperature of 210°C, and the ability to dispense up to 1.5 kilos of glue per hour.



FEATURES & HIGHLIGHTS

- Needle valve nozzle
- Uses 11/12mm glue sticks
- Output per hour: 1.5 kg per hour. (55 x 300mm sticks)
- Operating temp: 210°C
- 225 watt PTC heating system
- 4-minute warm-up
- Lighted ON/OFF switch
- Comfortable 4-finger trigger
- Removable stand
- 6-foot power cord
- UL Certified to ensure safety

Call - 01428 751 755

ProFlex Formulations available ...
900 / 905 / 930 / 940 / 950 / 970 / 975 and more ...



ORDERS & INQUIRIES: AdCo UK Limited • enquiries@adco.co.uk • 01428 751755

Where you can find TYDE in 2023
The Design in Mental Health Exhibition aims to cover a wide range of topics within the design, build, management and maintenance of facilities for mental health. 2023 marks the 10th edition of the live event and will be held at the Coventry Building Society Arena on 7th and 8th June.

The ASCP Conference is dedicated to safety and compliance in the social housing and facilities management sectors. The event is being held at the Telford International Centre on 14th and 15th June. Last year TYDE scooped the Highly Commended Award for the OSMO F1 concealed cistern. Visit them on stand D60. They will be displaying their British made, water-efficient products and you can talk to their experts about how they can help with your legislation and compliance challenges.



The Installer Show is the UK's largest heating, plumbing and electrical show with around 300 exhibitors, 100 speakers and 10,000 visitors expected. TYDE will be exhibiting at the annual go-to event for thousands of installers from across the UK at the NEC in Birmingham from 27th to 29th June. Pop along and speak to the TYDE team on stand B32.

After the success of Screwfix Live 2022, TYDE will be returning to the biggest trade and DIY show in the UK in September with more deals and giveaways.

The long established PHEX Plumbing & Heating Exhibition brings together the biggest names in plumbing and heating every year. TYDE will once again be exhibiting at the Manchester and Chelsea shows. Visit them at Old Trafford in October and Stamford Bridge in November to get access to exclusive deals and hear about the latest regulations changes.

Alongside the above events, TYDE will be hosting a number of Trade Days at various merchants across the UK, follow them on their social media pages for more information on venues, dates and times!

For more information, email: info@tyde.co.uk or visit: www.thomasdudley.co.uk/tyde



Burg-Wächter's Secure Communities Scheme helps keep South Liverpool Sea Cadets afloat

Burg-Wächter UK's 'Secure Communities Scheme' is providing timely help for South Liverpool Sea Cadets, a self-funding charity. The security specialist received an impressive appeal from the children's organisation for the free-of-charge security support that the Secure Communities Scheme affords. With repairs and replacement of equipment happening now, ready for next year's boating season, the timing of Burg-Wächter's assistance could not be better.

Burg-Wächter donated to South Liverpool Sea Cadets ten ratchet straps to secure sailing and kayaking craft to trailers plus ten saltwater- and rust-proof padlocks for securing equipment when it is next to rivers and the sea.

Gary Devaney, Chair of South Liverpool Sea Cadets, comments, "It was my daughter, Sarah, who found out about Burg-Wächter's assistance for charities. We're very grateful for this help. I'd got hold of the company's catalogue and went through it. Many of the company's products are ideal for us. Applying for the Burg-Wächter equipment was very straight forward. I went onto the company's website and followed the link to its



Secure Communities Scheme. Then all I had to do was to email some details to an address given there. I'm really pleased we made the effort!"

For further details of the scheme and rules of entry, head to: www.burg.biz/uk/community/

For information on Burg-Wächter's range of wired camera kits and other home security products, visit: www.burg.biz/uk or call 01274 395333.

Employee Benefits

Employee Benefits have now been integrated into Terryberry's Milestone and Recognition platform, creating an all-in-one engagement hub for employees.

As part of the integration, Terryberry have launched a new Offers and Discounts platform, designed to help as many businesses as possible to support their people during the cost-of-living crisis, with the platform giving users potential savings of up to £3,000 per year.

The idea behind bringing together their Employee Benefits and Reward and Recognition platform is so that Terryberry can offer businesses a seamless journey and a single place to house everything needed to create a culture of recognition within an organisation.

Village Hotels group have been the first company to launch with Benefits, Rewards and Recognition integrated into the same platform.

Lindsay Southward, Group Director of People and Operations at Village Hotels, said, "We are excited and delighted with our new bespoke one-stop benefits, reward and recognition platform. This now allows all our 4,500 employees across the UK to be recognised in real



time whilst at the same time accessing their Benefits and Wellbeing offerings in one easy to access platform and App.

"We have worked with Terryberry for a number of years, and we were excited when we heard that they were bringing benefits, rewards and recognition into one easy to use platform and immediately took up the opportunity to roll this out to our teams."

If you are interested in an all-in-one Engagement, Reward, Recognition and Benefits platform for your business, visit: www.terryberry.com/gb/contact-us/

when doing software testing in such situations, everything must be clearly laid out; that means coming up with flawless use cases, including expected results, for the test team to go through.

Ricoh initially did a six-month pilot with FPT and found it was able to easily align with its partner in terms of getting structured test plans that matched their expectations.

While dedication and commitment have been key factors, the glue holding it all together has been communication. The idea of offshore testing may be an attractive one, but you finish programming during the day your time, and then the overseas



testing crew comes in 'overnight'. It theoretically saves half the time. It's a neat trick to pull off – if you can pull it off the right way.

www.ricoh.co.uk
www.fpt-software.com

Ricoh crosses continents to choose an outsourcing partner

Ricoh is a global information management and digital services company. Most of their printers and office hardware are software-driven. That software needs to be continually updated to ensure it is compatible with new office computers and operating system versions, and to ensure it is compliant and secure.

Ricoh partnered with FPT Software to improve testing processes. However, FPT is located in Asia and Ricoh's team is based in North America.

With distance comes possible 'X factors', from language and culture to challenges around two companies being many time zones apart. Often



innovations that changed the lives of both the participants and their communities. The UKJWP winner is automatically entered as a finalist into the international final of the Stockholm Junior Water Prize (SJWP), organised by the Stockholm International Water Institute (SIWI). Over 38 international finalists will compete for the US\$15,000 prize during World Water Week in Stockholm.

Over the years, many ideas that started as Junior Water Prize projects proved to be important

During their time in Sweden, the international finalists take part in daily social, educational, and cultural events. The prestigious awards ceremony – where HRH Crown Princess Victoria of Sweden presents the prizes – also features inspiring speeches from distinguished members of the water community, an entertainment programme, and an exuberant 'flag parade'.

The competition supports students as they improve their ability to identify and understand local, national and global climate issues, conduct independent scientific research, write compelling academic papers, and present findings to industry experts. Applications close on 7 May 2023.

For more information and to apply, visit: www.ciwem.org/awards/ukjwp23

Cost-effective benefits solution

Employee benefits are so important that up to 80% of employees say they'd rather receive benefits over a pay rise. Terryberry's cost-effective benefits solution means you can give employees access to an easy-to-use discount platform, giving potential savings of up to £3,000.

Along with their employee benefits offering, Terryberry also offers a reward and recognition platform, designed to create a more engaging work environment for employees and delivering a more productive and efficient workforce.

Recent studies suggest that businesses with a more engaged team had 17% higher productivity within their workforce. This also results in 21% higher profitability. All of this can be achieved without breaking the bank, as it is recognised that employers are feeling the effects of the cost-of-living crisis, as well as

the employees. That is why Terryberry's solution is designed to solve the problem for both.

Terryberry will be exhibiting at the SME Watercooler event, Stand S617, from 25th-26th April and at HR Technologies, stand Q28, from 3rd-4th May.

If you aren't going to be at those events, or you want to engage your staff, create a more productive workforce and help your employees tackle the cost-of-living crisis sooner, get in touch today at: www.terryberry.com/gb/360-recognition-platform/



Terryberry

Cambashi reveals growth opportunities for engineering software and a wider potential target audience

Data from the latest Cambashi Employment Observatory indicates the future growth opportunities for engineering software – and how the potential target audience for its deployment can be increased. Cambashi reveals that, while engineering software vendors have been developing software to aid designers and engineers for decades, the improved functionality of these software tools has improved to the point where most architects, designers and engineers find them indispensable.

"Digital transformation is opening up new opportunities for engineering software tools to support decision making among managers/supervisors and improve the information flow for 295 million skilled tradespeople and machine operators. It will require new types of solutions, such as visualisation and augmented reality, giving them access to and the ability to interact with 3D design models," said Dan Roberts, Senior Consultant at Cambashi.

"Major vendors, such as Autodesk, Bentley Systems, Dassault Systèmes, PTC, & Siemens Digital Industries Software continue to improve and refine their design capabilities to provide full coverage of the design cycle, including the visualisation and simulation necessary to enable, for example, digital twins."

Data from the Cambashi Employment Observatory



shows that worldwide there are 6.5-times the number of managers and skilled tradespeople compared with architects, engineers, and technicians. With such a vast number of potential users, it is clear to see why software vendors might be rushing to provide tools to help.

Cambashi's Employment Observatory is an invaluable tool to establish market potential for the various engineering software segments in defined industry sectors and territories. It shows exactly which countries and industry sectors employ the 350 million additional potential engineering software users.

Request a Cambashi's Employment Observatory sample or download the article 'Engineering software – what are the opportunities for growth?' at: <https://cambashi.com/growth-opportunity-for-engineering-software/>

Custom ERP Systems CRM Systems Dashboards

Custom built ERP and CRM systems to streamline your enterprise operations



accounting workflows suppliers planning distribution sales API integrations



cybernoise.co.uk/hello
020 3949 7339
martin@cybernoise.co.uk

Scan the code



SUSTAINABILITY TODAY

Issue 444 April 2023

Tel: 0121 550 7510

www.businessandindustrytoday.co.uk

energy | water | waste | recycling | sustainability on LinkedIn and Twitter

JACOB

NO. 1 IN PIPEWORK SYSTEMS

Jacob UK.

Precise. Measured. Ready to go.

When it comes to process production, precision is key.

JACOB provide a modular steel pipework system that meets both FDA and EC 1935/2004 Food Grade standards.

DETECTABLE DESIGN

FOOD GRADE
EU-EC 1935/2004 & HACCP



For more info: www.jacob-group.com/uk

CARTWRIGHTS
WASTE DISPOSAL SERVICES LTD
ZERO TO LANDFILL

WE CATER FOR ALL TYPES OF WASTE MANAGEMENT SOLUTIONS

TIPPING FACILITIES

SKIP HIRE
FOR ALL TYPES OF WASTE

AGGREGATES SUPPLIED

ROLL ON ROLL OFF
DOMESTIC & CONSTRUCTION

WHEELIE / COMMERCIAL BIN SERVICES
PLASTICS, CARDBOARD RECYCLING GENERAL WASTE, FOOD WASTE, GLASS

GRAB HIRE SERVICES & TIPPER HIRE
CONCRETE, SOIL, RUBBLE AND MORE

CARTWRIGHTS HAS SPECIALISED IN INTEGRATED WASTE MANAGEMENT SOLUTIONS & SKIPS FOR OVER 35 YEARS
COVERING SHROPSHIRE, WEST MIDS & BORDER WALES

TELFORD 01952 587587 **SHREWS 01743 358886** **SHROPS 01939 250509**

OR VISIT CARTWRIGHTSWASTEDISPOSAL.CO.UK

Cartwrights Waste Disposal Services Ltd
Unit 21, Halesfield 21, Halesfield, Telford, TF7 4NX • enquiries@cartskips.co.uk

Panasonic & Finn Geotherm shortlisted

Panasonic is pleased to announce that a recent install at Paragon House – University of West London, has been shortlisted in the 'Green Heat Project' category of the UK Green Business Awards. Panasonic worked in partnership with installers Finn Geotherm on this bespoke and ground-breaking project to install three x 210kW air-to-water heat pump units. The winners of the awards will be announced at a celebratory dinner at Leonardo Royal Hotel in London on 29 June 2023.



The project at Paragon House at University of West London, has seen a ground-breaking first for Europe and the UK, with the installation of three 210kW Panasonic air-to-water heat pumps with a bespoke cascading thermostatic control system to heat the entire building. The team at Finn Geotherm worked closely with Panasonic's European R&D and UK teams testing and verifying data to produce an end solution that is estimated to save the university approximately 1,058,000kWh of energy per year.

The Panasonic 210kW heat pump units installed at Paragon house offer outstanding efficiency with extremely high SEER and SCOP figures, can operate in temperatures as low as -17°C in heating mode, are quiet in operation, offer a customisable design with capacities from 20k to 210kW, and can be integrated into a BMS control system. Overall the project is expected to save in excess of 500 tonnes of CO₂ per annum.

For more information on Panasonic low carbon solutions, please visit: www.aircon.panasonic.eu

Red Badger

The world is on a \$4trillion energy transition away from fossil fuels to renewables and every corporate is facing the twin crises of climate and energy. To respond to the climate crisis requires aggressive decarbonisation. Net zero depends on supply-side transition but this alone will not be enough, consumption must change too. Alongside carbon reduction, the energy crisis is putting pressure on affordability and sustainability. There is an urgent need for firms to future-proof their approach to energy, requiring the shape of their demand to evolve in lockstep with supply-side transition.



Blue chips recognise the role they need to play but a pragmatic and prudent response can be hard to fathom. Progressive technology leaders are future-proofing their businesses with sustainable ways of thinking. They are embracing new approaches to deliver the products and services their customers depend on.

By reconfiguring core technology platforms they multiply sustainability gains. By focusing on efficiency & simplifying complex architectures, they do more with less. Efficient enterprise codebases, such as those built in Rust, reduce costs & carbon. Companies that develop a strong case for change and accelerate their transition will be the first to capture multiple advantages. Red Badger is the product transformation consultancy for companies with millions of customers. Our product design capabilities & technical pedigree build sustainable, continuously evolving digital products and platforms.

hello@red-badger.com
www.red-badger.com

TANA
RECYCLING MACHINERY (UK) LTD.

50 YEARS OF WASTE AND BEYOND
TANA

From Waste to Value®

- MSW
- C&I
- Tyres
- Mattresses
- C&D
- Plastic
- Wood
- Textiles

Scan Me

enquiries@tanauk.com | Tel. 01302 872 431

APRD MACHINERY
THE ATTACHMENT EXPERTS

Machinery Attachments – Oilquick quick couplers, screening buckets, grabs, pulverisers and more

info@aprdmachinery.com
www.aprdmachinery.com

Engineered solutions: From blueprint to manufacturing

In this issue of Sustainability Today, we are proud to announce Water Process Solutions as our Process Engineering Solutions Company of the Year.

Water Process Solutions provides expert engineering solutions for water treatment problems across the UK, always providing the highest-quality manufactured products.

The highly reputable company was established in 2014 by a consortium of senior, experienced Wallace & Tiernan engineers and management. Although UGSI Chemical Feed, Inc own the IPR: Water Process Solutions are the sole expert manufacturers; distributing across the world to European neighbours and as far as India, South Africa and Singapore.

Within the domestic market, Water Process Solutions has partnered with multiple UK water companies from Affinity Water, Yorkshire Water, Scottish Water, United Utilities to South West Water, offering an extensive range of manufactured products and dedicated technical expertise. Although the main focus is on municipal drinking water and wastewater treatments, the company also specialises in chemical metering for the energy sector and water processing for the food, drink and pharmaceutical sectors.

Throughout the recent COVID-19 pandemic and current cost-of-living crisis, the dedicated team has steadied its nerve and come out on top, as Managing Director, Clive Dean, confirms, "We have a good solid reputation across the UK, Europe and internationally. With 25% of our business trade going through exporting, we are always looking to expand our market share. We have only recently slightly increased our prices, to reflect growing overheads and costs but we are lucky: we have experienced a steady increase in demand for our services recently by approximately 15% each year for the last three years. This year-on-year organic growth has been across the range of products and spares we have in our portfolio."

"We have recently expanded our offering to our customers to include the customisation and custom system builds using the core standard products we have. Up until this point we have concentrated on standard products, we have recently acquired the capability to design custom systems based on our standard products, so we can offer a complete solution to the customer."

"We have recruited more staff at our Aylesford office, and are looking to increase our



manufacturing capacity by an additional 25% in the coming months."

Water Process Solutions has an impressive, trusted product portfolio including: Encore® Pumps, Polyblend® dry and wet polymer feed systems, Varea flow Meters®, Electrochlorination, odour controls, lime feeders and new-to-market UGSI products: Fluid Dynamics and PSI Electrochlorination.

These robust, precision-engineered products are perfect for any industry, from wastewater to mining, that needs to meter a specific chemical into a process stream. With a team of in-house experienced, dedicated engineers, Water Process Solutions can now design and manufacture uniquely bespoke solutions for a wide range of complex applications. This 'thinking-outside-the box' approach has stood the company in good stead; helping customers explore beyond a standardised approach.

A full consultation helps customers fully consider logistics from physical locations, automated system technology, to savings on operational and chemical costs as Aran Bray, Sales Director, elaborates, "During a recent project, a customer operating in the Mining industry requested a polymer make-up system with a variety of specific operational needs. Partnering with the customer directly, we designed a hybrid of one of our standard process systems, then adapted it with specific modifications. Throughout the research and development stage and some Prototype testing, we engineered a skid mounted system to fully meet the customer's



requirements.

"The final bespoke product – a powder to liquid polymer make-up system, included a big bag loading arrangement for the powder polymer. We used our high shear DD4 disperser

system as a primary mix, for brisk activation of the polymer and prevention of agglomerations, a large volume hydration tank, and secondary mixing via our patented 'hollow wing' impellor design.

"Transportation of this product was over several thousand miles, which was an added challenge in itself, but this was managed successfully too. The customer was delighted with the final product, thus demonstrating our creative tenacity and design flair in this field."

Research and Development is a strong suit in the armour of this company, and is one of the many reasons why this worthy company is the recipient of our Company of the Year Award. Clive validates this by outlining some future innovative plans, "We are looking at upgrading some of our dry and wet polymer systems, which are now due a timely reboot."

"Our short-term goals are to establish more system engineering solutions to complement our standard product offerings. Our longer-term goals would be to increase our product portfolio through utilising some of our R&D ideas and potential acquisitions we have in mind."

Water Process Solutions has proved it can weather market uncertainties,

brought on by COVID-19 and the cost-of-living crisis and prides itself on exceptional customer service, looking after valued long-term customers and attracting new customers, as Clive adds, "Being small and agile, we can provide a fast response to many requests, our average turn around on spares is five days and only 30 days on most complete products."

"Priding itself on a purely 'Made in Britain' profile: overseas investors are attracted by the precision-driven engineering flair and driven attention to detail. The team understand full well the complex challenges faced by climate change: extreme droughts, flash floods and storms across Europe and indeed, most of the world and subsequent impacts on water supplies and wastewater through debris clogging. Clive, Aran and the team are committed to environmental sustainability as illustrated in its own best practice."

"We have four electric vehicles across the company, with charge points on site. We have relatively low energy consumption as a company, with a low carbon footprint. Our pumps are naturally 100% recyclable, showing our innate drive to ensuring future environmental sustainability."

The expert team will be at the leading The Pump Centre 'Water Equipment Show' at Telford International Centre on the 11th May 2023, showcasing its impressive range of process engineering products.

To view the full range and to find out more, see below:
T 44 (0) 1622 719945
enquiries@waterprocesssolutions.com
www.waterprocesssolutions.com

WATER PROCESS SOLUTIONS



Alkali Environmental UK announces new air quality consultancy department



Your Environmental Monitoring, Consultancy & Compliance Experts

Alkali Environmental are expanding their services to include an air quality consultancy department.

Alkali Environmental brings a fresh approach to environmental services. Comprising a team of forward-thinking industry experts, we combine our expert knowledge with a commitment to exceptional service.

The consultancy division will complement our stack emissions offering, giving our clients a complete package to industrial air quality by providing services such as permitting, dispersion modelling, H1 stack height determination, ambient air quality and odour monitoring.

The consultancy division will also be able to provide assistance with planning applications in the built environment, by providing air quality, noise and lighting assessments for new development proposals, following the process through to providing construction dust monitoring and mitigation.

At Alkali we understand that poor air quality continues to pose a significant threat to people and the environment in the UK and can be one of the greatest environmental threats to human health. This is why all our air quality services carried out by our experienced environmental consultants offer a faultless service to determine its suitability for use in terms of the potential impact on air quality and any other subsequent risk to human health. All of our air quality practitioners hold suitable academic training as well as being affiliated with the Institute of Air Quality Management (IAQM).

If you're involved in property and construction, industrial and commercial, retail and managed estates, and require an Air Quality Assessment for your planning application, our environmental expert consultants can assist you with a variety of services to meet the needs of your projects.

In addition, dust emissions come from a wide range of activities and can be generated by on-site construction and site operations. We offer a variety of services to help you in this area including Construction & Demolition Assessments, Construction Environmental Management Plans



Alkali Environmental

(CEMP), Operational Dust Impact & Exposure Assessments, Construction Dust Monitoring (MCERTS), Noise and Vibration Monitoring and Boundary Monitoring.

Our equipment ranges from simple passive diffusion tube sampling to sophisticated, automatic air quality stations that offer continuous air quality monitoring with real time updates and alerts. We can support you in a variety of projects that cover many pollutants. From installation to operation and air quality management, our air-quality equipment will provide specific data management solutions for your organisations to help you develop a better understanding of your impact on your employees, the local environment and public health.

Alkali Environmental Odour Services are perfect for minimising the risk of nuisance complaints by assessing the effects of odour on the surrounding environment before your project has even begun. We can support you with IAQM Odour Impact Assessments, H4 Odour Impact Assessment, Kitchen Odour Assessments, Odour Management Plans, Site Odour Surveys, Odour Complaint and Nuisance Investigation, Odour Dispersion Modelling, and UKAS & MCERTS Odour Monitoring to combat this. We are extremely experienced in conducting



odour monitoring and odour assessments across all industry sectors.

Furthermore, Alkali Environmental can assist with a variety of other services to meet your needs. Contact us today to request a brochure for a full list of offerings or to discuss your requirements and see how we can help.

M 07551 591363
matthew.oneill@alkalinity.uk
www.alkalinity.uk



Alkali Environmental

AIR QUALITY

www.alkalinity.uk

Air Quality Services:

- Air Quality Assessments for New Build Planning Applications
- Air Quality Risk Assessment for Environmental Permits

- Dispersion Modelling Assessments
- Air Quality Neutral (AQN)
- Air Quality Positive (AQP)
- H1 Stack Height Determination
- Air Quality Monitoring

- Construction Dust Monitoring
- Odour Assessments
- UKAS & MCERTS Odour Monitoring
- Mitigation Advice
- Local Authority

- Annual Status Reports (ASR)
- UKAS & MCERTS Stack Emissions Monitoring
- Lighting Assessments
- Noise Assessments
- Indoor Air Quality

Introducing Beyondly **BEYONDLY**

B Corp certified environmental consultancy reveals new innovative brand

Beyondly, formerly known as Comply Direct, launched on Monday 27 March. While the company is incredibly proud of its Comply Direct legacy and the transformative journey the business has been on since inception in 2006, the shift to Beyondly was a natural necessity.

Beyondly empowers organisations to be confident about their environmental choices, and as a B Corp certified business, has created a brand that better captures their 'business for good' ethos and strong vision of a 'better, fairer, sustainable world for all'.

As their circle grows, Beyondly will continue to evolve as it encourages other organisations to take the right step forward; from compliance obligations, contributing to a circular economy, and going beyond net zero.

Jessica Aldersley, Managing Director at Beyondly, looks forward to taking the business forward as a purpose driven organisation, 'Our business has always had the ethos to continually strive for a better way and this has undoubtedly been pivotal to our growth and evolution as a business. Through this evolution, we have gone way beyond environmental compliance to become a purpose driven organisation with a vision of a better, fairer, sustainable world for all.'

The future of Beyondly is exciting and their influence on the environmental sector is guaranteed to be impactful as this innovative brand makes its mark on the industry.

For more information, take a look at the new website: www.beyond.ly

Bluewater plucks plastic waste from beaches

Bluewater, the global Swedish water purification and beverage solutions provider for homes, HORECA, and public dispensing, has helped clean 85,000 kilograms (187,389.7 pounds) of plastic waste in the past three years from coastal areas – that's the equivalent of approximately 7.1 million PET bottles. Working with Empower, an international Norwegian blockchain-enabled plastic recycling organisation, the Bluewater initiative saw waste collected, sorted, and recycled in numerous African and Asian coastal areas, including Nigeria, Ghana, Rwanda, Tanzania, India, Sri Lanka, and Indonesia.

"We are delivering on our pledge to collect 1kg of plastic from coastal environments for every one of our sustainable bottles sold," says Bluewater founder and CEO, Bengt Rittri. The Swedish environmental entrepreneur, who founded Bluewater in 2013 intending to harness human ingenuity to halt the need for destructive plastic bottles and the micro-plastic they leach, noted that the plastic collected would be enough to fill over 7,000 Olympic-sized swimming pools.

The Empower premise is simple; Incentivise people to recycle by giving them up to €0.30 per bottle returned and, at the same time, incentivise producers to participate by writing off an environmental tax. The Empower idea stems from Norway's national plastic exchange system is incredibly effective – 97% of all plastic bottles are recycled, while the average in the US is around 30%.

For more information, please contact Dave Noble, Bluewater PR and Communications Director, at +44 (0)7785 302694 or email: david.noble@bluewatergroup.com or visit: www.bluewatergroup.com

Zero 2 Landfill: The era of RDF

Cartwrights Waste Disposal Services Ltd has been a leading integrated waste management and skip hire delivery specialist for over 35 years. Based in Telford, Shropshire, the company works with SMEs to larger multinational businesses across Shropshire. Regarded as having one of the most efficient regional waste transfer stations, Cartwrights offers waste disposal solutions across the spectrum, including whole site clearance.

Since 2013, Cartwrights has proudly traded as a 'Zero 2 Landfill' business, streamlining recovery of 12 different types of reusable waste. Any residue waste that cannot be recycled, is reprocessed into refuse derived fuel (RDF). A new 12 month partnership with Andusia Recovered Fuels Limited, has secured Cartwrights a joint contract to supply 10,000 tonnes of RDF to the German EEW

Knapsack facility. The recovered waste will be utilised to create energy and electricity, thereby diverting needless landfill waste.

Director of Cartwrights Waste Disposal Services, John Cartwright, heralded this new partnership as exciting, sustainable joint venture, "We are delighted to have teamed up with Andusia. At Cartwrights we strive for Zero 2 Landfill by maximising our waste recycling and reuse efficiencies. When this isn't possible: sending waste for incineration, as RDF, to EfW plants, is the perfect solution."

Beyond RDF, this forward-thinking company has installed solar panels on its Telford-based offices and building, signalling its ongoing commitment to net-zero emissions.



T 01952 587587 | 01743 358886 | 01939 250509
enquiries@cartskips.co.uk
<https://cartwrightswastedisposal.co.uk/>

RUKGROUP.COM

EXPERTS IN RECYCLING

UK RECYCLING & GLOBAL TRADING



Industry leading service since 1998



National collections by trailer, container or multilift bins





Local and national security destruction



We can supply compactors & balers



We buy baled waste paper & cardboard



We buy palletised surplus paper & board



Consulting & facilities management

Tel: +44 (0) 1829 732471
 10 Portal Business Park, Eaton Lane, Tarporley, Cheshire, CW6 9DL
 Visit our website www.rukgroup.com
 Email: General info@rukgroup.com Sales/Trading/export sales@rukgroup.com

Air-based technology facilitates plastics recovery

The hot topic of plastics recycling is not going away any time soon, and rightly so. It's everybody's responsibility to make sure plastics are sorted, collected, recovered, and recycled, but the bulk of the work typically still falls to the waste operator.

Utilising air-based technology to conduct waste sorting tasks is in huge demand due to its cost-effective and efficient technique which is why it is being selected for use in many recycling facilities around the world, saving thousands of tonnes of recyclable plastics, and

other materials, ending in landfill.

Air-based sorting solutions

Air-based material recovery solutions from industry experts, Impact Air Systems, are leading the way with various options to suit a wide range of plastic applications.

The Impact Film Vacuum System and Airlift solution, removes plastic bags, films from the waste stream, and bales them with a screw compactor system. Zigzag separation provides an efficient and effective solution to remove



dust, debris, and fibres from rigid WEEE plastic, granules, and flakes to provide a more valuable

product for recycling. Impact's Pneumatic Conveying System seamlessly transports plastic bottles and containers through the facility via a ductwork system to external storage containers or bunkers.

The examples below show the variation of plastic materials that can be recovered along with the alternate use of air-based technology to achieve resource recovery.

Increased material value

Enva Resource Recovery, in Bourne, Lincolnshire, operates a plastic recycling system to recycle household rigid plastic material and plastic car components, and needed to further improve the quality of the HDPE and PP granules by removing the lightweight fibres and debris.

The facility consists of a shredder, metal removal process, granulator and finally a plastic grade segregation process. The finished product is then collected into two tonne storage sacks for resale.

Impact Air Systems installed a Zigzag separation system to improve the quality of the final product by removing the light fibres and debris from the final material stream to boost its resale value.

The Impact Zigzag Air Classifier (ZAC), Air Drum Separator and Pneumatic Transfer system were also installed to recover the plastics from the WEEE material to divert it from landfill and increase its resale value.

The perfect collaboration

Impact has worked with both UK and overseas waste management facilities, providing a solution to remove plastic film and bags from the material stream.

As quality demands are heightened, our client selected optical separation quality control along with the Impact Flexible Plastic Packaging Airlift solution, to ensure higher quality waste streams are achieved.

Air technology at its best

Impact's Flexible Plastic Packaging Airlift is an innovative solution designed to work in conjunction with optical sorters to capture film that has been rejected from the material stream by the optical sorter air injection.

Flexible plastics captured by the Airlift are discharged from the conveying air stream via the rotary separator and deposited into the bunker below, removing the contaminant material at high volume, enabling it to be recycled.

Quality benefits

Impact's solutions ensure higher quality material streams along with increased revenue from recovered recyclable materials.

They also greatly assist the operator in achieving zero waste targets while encouraging the circularity of plastics aiding the transition towards a circular economy.

Impact Air Systems continues to provide support to the recycling industry with air-based technology solutions to enhance the operations of any waste management facilities or waste sorting centres, large or small.

Contact

www.impactairsystems.com



Your first stop for portable waste compactors



Supplying the waste industry with compactors, containers and skips since 1978

Get in touch today

028 308 51791 | info@numac.co.uk

www.numac.co.uk



49 Chapel Hill,
Mayobridge,
Co Down,
BT34 2EX

028 308 51791

PAINT FOR SKIPS

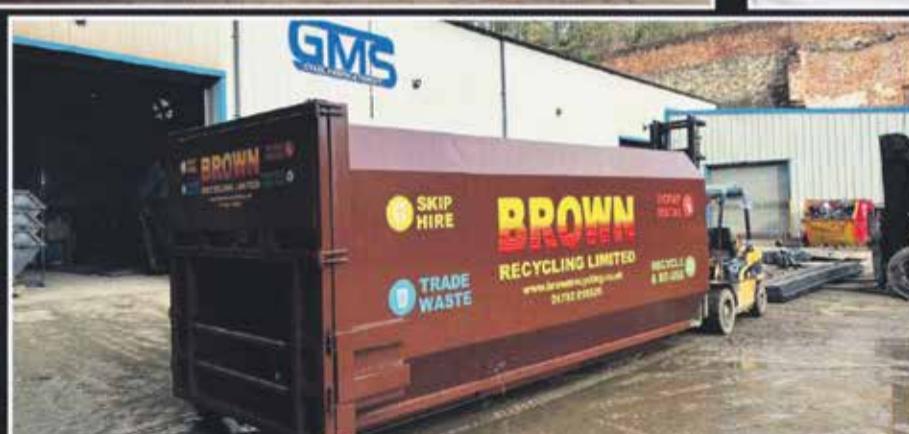
Check out our range of **QUICK DRYING** coatings, available BS & RAL colours:

- ONE COAT PRIMER FINISH AS USED BY THE LEADING MANUFACTURERS
- ANTI-CORROSION PRIMERS
- GLOSS/ENAMEL
- FLOOR PAINT - 2 PACK & EPOXY
- SYNTHETIC GLOSS ENAMEL - IDEAL FOR BRUSHING & ROLLING
- AEROSOLS - ANY COLOUR

Call our office: 01270 524515 / 01270 524745 | David Marsden: 07799 335071
Jill Marsden: 07919 047642 | E: sales@ai-paint.co.uk | W: www.ai-paint.co.uk



20 years supplying paint & coatings to the skip and recycling industries



Inspiring quality homes and sustainable communities

Are you involved in building safety, the Retrofit challenge, achieving net zero and providing quality and affordable homes within sustainable communities for your tenants and residents? If so, you cannot miss out on this dual show two day event, last held at London's ExCeL from 23-24 November 2022.

Learn from 250+ speakers and 6 stages of free learning

Benefit from a comprehensive programme with over 70 hours of sessions addressing your top sector challenges. HOMES UK is the destination event for anyone in asset management, development and sustainability. Come and hear from Government bodies, expert advisors and peer-led case studies offering practical solutions to the latest issues. Whether you are looking for a big picture snapshot of the sector or opportunities to tailor your agenda and drill into the detail, there is something here for everyone!

Unlock Net Zero Live – helping you meet your net zero targets

Co-located with HOMES UK, Unlock Net Zero Live is all about bringing people together from across sectors including housing, finance, transport and energy to discuss HOW we transition to a net



zero future. It's the place to share, engage, learn and innovate to find solutions to deliver net zero homes and places that work for all.

HOMES UK and Unlock Net Zero Live will return to London's ExCeL from 22-23 November 2023. This is our pick of the best exhibitors from last year's event, listed here in alphabetical order: The Pipeline Industries Group, Real Data Systems, RHE Global, Stelling Properties & Wiggett Group. Further details can be found on this page.

<https://homesevent.co.uk/www.unlocknetzerolive.co.uk>

Report noise with confidence and keep the peace with The Noise App



can reduce time spent on cases and support officers in triaging cases more accurately and efficiently.

For more information on a Premium subscription, or for a free demo with a member of the RHE Global team, contact: sales@rheglobal.com

The Noise App is a digital tool that supports citizens experiencing noise nuisance and allows them to report directly to their housing provider or local authority. The app is used by over 360 organisations across the UK, receiving around 3 million recordings since first launched in 2016.

Widely accepted in courts across the UK and used for enforcement by subscribing organisations, the app's data has proved invaluable in hundreds of cases, securing civil injunctions in county courts, along with ombudsman investigations. It has also played a vital role in a number of safeguarding cases.

With the addition of picture and video, case analytics and messenger functionality, the app

Sustainable modular construction

Stelling Properties is one of the UK and Ireland's leading Modular development, manufacturer, and construction companies. With innovation, flexibility, and a collaborative approach at its core, Stelling Properties is a trusted partner to many sector specific clients including PBSA, private and public sector housing Registered providers and Local Authorities, Care, Hospitality and includes various temporary accommodation solutions.

Stelling Properties roots are firmly in Development with expertise in Land Acquisition, Design and Planning, Off-site volumetric Manufacture, Construction, and where appropriate Service and Management, allowing them to truly deliver a full turn-key solution and the ability to deliver as a main contractor or on a supply and install basis.

The group also own Unilife, a student



accommodation operator delivering high quality service management and maintenance within student accommodation complimenting the group's overall mission to develop the best properties with every aspect considered for the end-users long term experience.

Their volumetric or 3D solution can deliver to net zero where required, and is designed with

sustainability and a 'fabric-first' approach, at the heart of their design. Their continuous R&D and state of the art production facilities allow them to produce up to 90% of a project in the factory with all the associated labour sourced locally contributing to their low embodied carbon initiative. This in turn allows greater quality management with material wastage significantly minimised programme with time on site reduced by up to 50% and delivery of a 'wet-trade and scaffold-free' project.

If you are involved in any of the above sectors, Stelling Properties would welcome your contact. You can contact their director of new business Anthony Broome, to discuss your requirements, book a visit to their factory or even a CPD session if appropriate.

T 01962 798130
www.stellingproperties.com

Promoting pipelines, connecting people

The Pipeline Industries Guild has a clear vision of its future, in which it will broaden its pipeline-engineering interests and continue to cater for the ever-widening horizons of its expanding membership. Providing a voice for the pipeline industries to share best practice and technological development.

From the point of view of pipeline engineering in all its aspects, the Pipeline Industries Guild is the place

where the disciplines meet, and where leading-edge technology is discussed, analysed, and disseminated.

The Guild offers a platform to discuss issues with policy decision-makers, key stakeholders, and peers in the UK and internationally. The Guild panels seek to identify trends and opportunities for members, it provides a voice for its member companies, representing them by raising policy issues with both UK

government and global standard organisations.

As well as its technical functions, the Guild members participate in a broad range of social activities, some of the most well-known of which are the yearly Branch Dinners and the Annual Dinner in London.

For more information, please check our events calendar:
<https://pipeguild.com/events>
For more information, go to: www.pipeguild.com



Wiggett Group

We at Wiggett Group are passionate about repairing our planet and we know that climate change can be solved by accelerating our sectors transition to net-zero emissions.

Sustainability is critical in social housing for several reasons. Social housing is often occupied by low-income families who are most vulnerable to the negative impacts of climate change. Ensuring that these homes are energy-efficient and have minimal environmental impact can help to reduce energy bills and improve the overall living conditions of the residents.

Secondly, social housing providers have a responsibility to reduce their carbon footprint and contribute towards a more sustainable future. By adopting sustainable practices, such as using renewable energy sources, reducing waste and emissions, and implementing green infrastructure, social housing providers can lead the way in building a more sustainable society.

Finally, sustainable social housing can also help



to reduce the overall impact of urbanisation on the environment. As cities continue to grow, there is an increasing need for affordable housing that is sustainable and environmentally friendly. By incorporating sustainable design principles into social housing projects, we can create more liveable and resilient communities that are better equipped to face the challenges of the future.

Contact
T 01277 231906
info@wiggettgroup.com
www.wiggettgroup.com

PropTrack, setting the standard for property management

Social, affordable housing and indeed the entire rental market in UK is currently facing its greatest challenges ever from all sides: some organisations are failing to manage their stock – some extreme cases have been highlighted recently by News at Ten and in the last few months the media in general.

Challenges housing associations and private landlords are facing:

- ▼ Existing Stock Quality and Data Integrity
- ▼ Services to Tenants
- ▼ Health and safety
- ▼ Build Management

It is an old adage saying, which is as true today as it ever was, "You cannot manage what you cannot measure."

Why RDS PropTrack?

Geo-referencing all your properties on a visual interactive map enabling:

- ▼ Quick access to overview information of the properties.
- ▼ Interactive property dashboards for easy information finding.
- ▼ Tenant information in one location.
- ▼ Property condition information in one location.



- ▼ Property reports in one location.
- ▼ Property inspection/survey module.
- ▼ Property maintenance module.
- ▼ Tenant app for service ticket creation.
- ▼ Manage service and maintenance tickets from a single platform.
- ▼ Manage subcontractors work quality and activities from a single platform.

RDS PropTrack – Your single source of truth for all properties you manage or own. Generate reports and access valuable visual analytics of each property for any compliance requirements.

Want to learn more about ProTrack? Contact us at: info@rdsbluebim.com

Building a modular future



Helping our clients deliver high quality modular homes, quickly, safely, and sustainably

Our Capabilities:

- Land Acquisition
- Design and Planning
- Off-site Manufacture
- Construction & Delivery
- Service & Management

+44 (0)1962 798130
info@stellingproperties.com
www.stellingproperties.com

Stelling Properties

ENOTEC: Leading gas sensing solutions since 1980



GAS SENSING SOLUTIONS SINCE 1980

In this issue of Sustainability Today, we are proud to announce that ENOTEC GmbH is our Gas Analysis Solution Company of the Month.

ENOTEC GmbH is a leading player in the process gas analysis technology, focussed primarily on the development, production and sale of In-Situ gas analysers and interconnected equipment for process control and emission monitoring applications. The analysers are perfectly suited for applications that involve incineration and combustion processes.

Established 1980 by Fred Gumprecht in Marienheide near Cologne, Germany, ENOTEC expanded exponentially in product development and production. With subsidiaries in UK, USA and Belarus, the company continues to offer global expertise, with localised, regional support.

Among many others, the target industries include coal, gas and oil-fired power plants, refineries, chemical and petrochemical plants, cement and steel plants, refuse, biomass and sludge incinerators,



paper/pulp manufacturers, waste heat boilers, drying processes and marine engines. The precision-driven ENOTEC products are designed to operate efficiently in high flue gas temperatures and high dust load environments, as well as corrosive or reducing atmospheres.

ENOTEC's compliance to the quality management system ISO 9001 ensures that the gas-sensing analysers provide reliable, accurate values. Furthermore, a SIL 2 (1oo1 selection) functional safety certificate is available for the O₂ sensor. On request and under certain conditions, a QAL1 certification can be issued for O₂ monitoring as part of a CEMS.

We caught up with Angie Niño, Digital Marketing Manager, to find out more about ENOTEC's gas analysers, "The OXITEC® 5000 can measure the excess O₂ directly after a combustion process to permanently control the air-fuel ratio. ENOTEC develops and produces their own zirconia based O₂ sensors, which are particularly robust, remain gas-tight due to a special soldering technique and have an average life expectancy of 7 to 8 years in typical combustion-related applications."

Moreover, ENOTEC's range of EX-probes and electrical control units permits measurements in designated explosion areas. Besides the European ATEX certification for zones 1/2, the analysers are certified according to the international IECEx regulations, which enables the worldwide use of the ENOTEC systems.

For example, the explosion-proof COMTEC 6000 GasEx probe embodies an additional COe sensor (COe = sum of all combustible gas components such as CO, H₂, CxHy, etc). Excess O₂ and COe levels can

be adjusted down to a minimum, enabling optimal fuel efficiency. The precise combined In-Situ measurement allows immediate reaction to changes in the flue gas composition, which is ideal for a safe operation, especially in refineries.

Arising from the COMTEC set-up, ENOTEC has developed the SILOTEC, a system to monitor the inertisation of silos (eg. coal storage) and early detection of smouldering fires.

Recently ENOTEC also displayed its CEMTEC rotary kiln extraction probe at the 2023 Global CemProducer Conference and Expo in Munich, Germany. Following the exhibition, trade delegates visited the refurbished Burglengenfeld Heidelberg Cement plant, to see the sophisticated state-of-the-art CEMTEC technology in action. It is designed for extreme harsh process conditions (temperatures up to 1,400°C and dust loads up to 2,000g/m³), having an availability of more than 95%.

ENOTEC has been a global leader of precision-driven process gas analysers for over 40 years and as Angie Niño comments, "Due to the constantly evolving market for emissions and process analysers, ENOTEC is decidedly committed to stay at the forefront of this evolution by strongly investing in research and development for future innovation."

For more information, see the UK Sales office details below:
T +44 (0)844 247 0102
enotec.uk@enotec.com
www.enotec.com



Plant Equipment & Quarrying

Supporting the Construction Industry with Asset Finance

closeasset.co.uk/bit

Close Brothers Asset Finance is a trading style of Close Brothers Limited. Close Brothers Limited is registered in England and Wales (Company Number 00195626) and its registered office is 10 Crown Place, London, EC2A 4FT.

UPLIFT YOUR ORE GRADE

MMD have been a global leader for over 45 years in the design and manufacture of innovative material processing equipment. Our core products, the Mineral Sizer™ and Apron Plate Feeder, feature in groundbreaking in-pit solutions that enhance productivity, profitability, safety, and promote sustainability in the mining industry.

MMD's revolutionary Bulk Ore Sorting System combines the benefits of In-Pit Sizing and Conveying with pioneering ore analyser technology. The ore analyser distinguishes between grades of material, enabling the separation of ore from waste at the mine face. By allowing this to happen earlier in the process, trucks need only to haul ore, not waste, to the processing plant. The results are up to 10% less energy usage and a lower cost per tonne. Efficiency advantages are passed on to the downstream processes too, with less water consumption, ore grade uplift, and SAG mill benefits. These MMD systems are currently operating in South Africa, Chile and Brazil, processing copper, platinum and nickel ore.

We invest heavily in developing new technology that maximises efficiency. We are committed to helping our customers achieve their sustainability targets and lead the way towards a greener future for the industry.

Green Mining Solutions
Sizers | Feeders | IPSC

MMD Mineral Sizing Europe

MMD have been a global leader for over 45 years in the design and manufacture of innovative material processing equipment. Our core products, the Mineral Sizer™ and Apron Plate Feeder, feature in groundbreaking in-pit solutions that enhance productivity, profitability, safety, and promote sustainability in the mining industry.



MMD's revolutionary Bulk Ore Sorting System combines the benefits of In-Pit Sizing and Conveying with pioneering ore analyser technology. The ore analyser distinguishes between grades of material, enabling the separation of ore from waste at the mine face. By allowing this to happen earlier in the process, trucks need only to haul ore, not waste, to the processing plant. The results are up to 10% less energy usage and a lower cost per tonne. Efficiency advantages are passed on to the downstream processes too, with less water consumption, ore grade uplift, and SAG mill benefits. These MMD systems are currently operating in South Africa, Chile and Brazil, processing copper, platinum and nickel ore.

We invest heavily in developing new technology that maximises efficiency. We are committed to helping our customers achieve their sustainability targets and lead the way towards a greener future for the industry.

Contact
T +44 (0)1773 835533
info@mmdsizers.com
www.mmdsizers.com

Climate change and growing flood risk

These important events, Floodex UK & co-located National Drainage Show held at London's ExCeL from 23-24 November 2022, came at a timely moment – following the recent review of the Thames Estuary 2100 Plan, the Environment Agency has launched a major consultation on the updated plan to protect London and the Essex and Kent coasts that border the River Thames from increased flood risks as climate change threatens to create higher sea levels.

Visitors could engage with experts & consultants, harvesting advice on what they could and should be doing. They could talk to the people and organisations on the exhibition stands, who could help them deliver their planned solutions with the latest equipment, technology, services and knowledge. Visitors could speak to a wide range of suppliers and expert advisers that would normally take them months to get around; trade shows are the most productive use of time, especially if visitors were thinking of changing or

looking for a new supplier.

Floodex UK and National Drainage Show will return to London's ExCeL from 22-23 November 2023 alongside a new co-located event, Waterways Management Show. This is our pick of the best exhibitors from last year's event, listed here in alphabetical order: Andy Guest Jetters, CIWEM, Future Water Association, Jetchem Systems, Rioned & SPP Pumps. Further details can be found on this page.



www.floodex.co.uk
<https://drainageshow.com/>

Drain Jetter is cleaner, greener and more powerful

At last year's National Drainage Show, Andy Guest Jetters launched the 5-Series van-pack drain jetter. The most powerful jetting machine in its range, the new unit meets all Stage V emissions regulations without compromising on the performance needed to tackle the most demanding drainage tasks.

Powered by a Yanmar 4-cylinder common rail diesel engine and triplex plunger pump, the unit delivers 3,000psi @16gpm performance to clean and unblock pipelines up to Ø350mm.

Jon Woods, UK Sales Manager at Andy Guest, says that Stage V emission standards have been at the forefront of the machine's development, "Meeting the emissions guidelines while maintaining the same level of quality and high performance that our customers know and trust has been the priority with the 5-Series."

"The Yanmar engine is also the cleanest in its category with a Diesel Particulate Filter (DPF) and direct-injection technology dramatically reducing emissions while increasing the engine's



fuel economy and power output."

The 5-Series is smaller and lighter than previous models and can be fitted into mid-size drainage vehicles. It can also be converted into a bespoke stack and split configuration for installation in CCTV and multipurpose vans.

For more information about high-pressure drain jetting machines, visit: www.andyguestjettters.co.uk/high-pressure-van-pack-drain-jetters

Jetchem Systems

Attending Floodex UK and National Drainage Show 2022 was a great opportunity for us to showcase some of the latest products from our range of jetting units. The main focus of the stand was our newly developed 7.5 tonne JetVac Urban lorry which was specifically developed as a solution for inner city use and navigating small country lanes. We also chose to highlight the benefits of our popular 'Sprint' trailer jetting range which provides an extremely versatile unit, ideal for tasks such as duct desilting, which has become a much talked about topic within the drainage industry.

Our 'Alternative Power Source' range of jetters gathered a lot of attention, which includes the electric jetter & the power take-off jetting pack. Electric jetting units are gradually becoming more practical and are able to offer a zero emissions option, with performances matching



the more popular fuelled jetters. The Power Take-Off (PTO) pack was introduced as a means of saving space within the rear of the van by utilising the vehicle's engine to power the pump.

As always we welcome invites to provide demos nationwide of all our equipment, details can be found at: www.jetchem.com

Future water innovation

Future Water Association UK is a not-for-profit business support organisation that has been driving water sector innovation for the last 30 years.

CEO Paul Horton hosted the network November sessions at last year's FloodEx and National Drainage Show at London's ExCeL. The sessions focused on hot topics such as forward-thinking solutions in flooding and combined sewer overflows.

The Met Office recorded that this February was the driest on record for 30 years, warning of yet more summer droughts. Further unsettling La Niña conditions, global weather patterns and climate change all impact on flood management measures, ancient sewage systems and housing construction on flood plains.

All these factors have created a flux across the water industry and Future Water Association UK has stepped up to become the recognised voice of the sector. By taking a leadership role with Government think tanks, industry leaders and the wider public, this dynamic organisation is galvanising innovation and educational solutions.



Through high-profile media exposure, such as the National Underground Asset Registrar (NUAR) on BBC News, Water Dragons innovation, delivering its 'Innovating the Future' roadmap & publishing its OTWAT PR24 methodology, the dedicated team are pushing the water sector agenda forward and encouraging the wider supply chain to come up with innovative futuristic solutions.

Future Water Association UK members can access the latest cutting-edge thinking and best practice, through training, networking opportunities, business and PR support.

For more information or to become a member today, see below:
T 0333 014 4498
admin@futurewaterassociation.com
www.futurewaterassociation.com

Flood & Coast 2023

Flood & Coast 2023 is an industry-leading annual event for those working towards a sustainable future, is set to take place from 6 to 8 June at the Telford International Centre.

This year's event will feature an array of world-class speakers, including experts in flood risk management, climate change, coastal erosion, and resilience. Attendees can also participate in interactive workshops, networking sessions, and site visits to see innovative flood and coastal defence projects in action. In addition to the main conference programme, Flood & Coast 2023 will feature an exhibition highlighting the latest products, technologies, and services in the field of flood and coastal erosion risk management (FCERM).

Flood & Coast 2023 is a 3 day conference programme, each day emphasising a particular theme with our strategic partners. Day 1, supported by our partners The Environment Agency, is themed on Flooding and Coastal erosion risk management in a changing climate. Day 2, supported by our partners The Rivers Trust, will explore how we, as a community, can build natural flood management and broader nature-based solutions and see them become mainstreamed. Day 3, supported by The Association of SuDS Authorities, is a full day about surface water management for people places & the environment – working with CIWEM's Urban Drainage Group.



The event is owned by The Chartered Institution of Water and Environmental Management (CIWEM) in collaboration with strategic partners, Association of SuDS Authorities (ASA), The Rivers Trust and The Environment Agency.

To register, please visit the event website at: www.floodandcoast.com or email us at: info@floodandcoast.com
For more information, please contact: Olga.Nielsen@ciwem.org or Irina.Danilova@ciwem.org

Rioned's all-electric jetting vehicle in operation with Anglian Water

When Rioned launched the world's first all-electric skid-mounted sewer jetting machine, there was scepticism about its capacity to handle the daily workload. Three years on, and with numerous eCityJets units now in operation, the firm has begun to see a shift in attitudes.

Mark Cox, Sales Director at Rioned UK, says he has seen a growth in interest across the industry for zero-carbon equipment, "The drainage equipment sector is changing, and machines using alternative power sources are set to become the norm over the next decade."

In September 2022, Anglian Water was the first utility company to put an all-electric jetting vehicle into operation with the acquisition of an electric van, fitted with a Rioned eCityJet machine.

Mick Farmer, Head of Fleet Services at Anglian Water, said, "Innovations like this new fully electric jetting van have the potential to revolutionise our everyday work."



"We're always working to eliminate the impact of what we do on the environment, and being able to jet clean sewers with an electric jetting machine on an electric van will not only cut carbon emissions but prevent sewer blockages which can cause pollution."

To find out more about the eCityJet visit: www.rioned.co.uk/ecityjet

High-performance dewatering solutions from SPP Pumps

The SPP Pumps Dewatering range is a proven, versatile and comprehensive product range suitable for use in a wide variety of applications worldwide and are primarily sold to rental organisations, contractors, utility companies, open cast mines and municipalities – providing a durable solution to any business pump application. Our highly trained and qualified engineering team work with you to find a bespoke pump configuration for your specific needs and requirements – ensuring product performance and excellence across the board.

Autoprime dewatering pumps
Our trusted and reliable pump technology from this robust range of self-priming pumps has become the standard for dewatering pump solutions. A perfect answer for thousands of demanding, project critical applications, including flood protection, wellpoint dewatering, sewer over-pumping/bypass, and industry and groundwater control.

Manoeuvrable and versatile, pumps are supplied either in open set configuration or, for quiet, unobtrusive operation, with an acoustic canopy enclosure. The Autoprime range offers an extensive



range of stocked products and custom-built pump sets.

Convenience is built in from the Q-Series with pumps available mounted on road-towable or site trailers as well as skid-type chassis – so no need for a crane and an easy two-person job on site.

www.sppumps.com

Electromechanical engineers

ADC Electrical provide a maintenance and repair service for rotating electrical equipment that includes motors, fans, pumps, and more. Ensuring that a pump and/or motor is repaired to the highest quality, ADC Electrical's engineers are trained to the highest level and have experience & expertise that are trusted in the industry. Its pump range covers all major pump manufacturers and types such as Grundfos, Wilo, Flygt, Lowara and Centrifugal, Submersible, Positive displacement and more.

Enjoying its recent surge of sales and customers, the supply of new motors and other goods has shown good numbers and this has been supported by the introduction of new pump engineers into the business.

Alongside a new project that will highlight ADC as the only supplier in the industry to introduce and build a new line of bespoke stator models up to 1.2 megawatt in size to a specific specification, ADC has also developed its working relationship with the Primary Engineer Programmes project working with local schools to increase skills and knowledge of engineering.

ADC work alongside leading companies in the production and prototyping of specialised cutting edge technologies stators for motors for specialist end applications. Motor types such as 6 & 12 phase designs, high speed (up to 70,000rpm), High output (1MW in a stator of extremely compact design), and Specialist material (for extremely high working



temperatures) can be produced for the following industry sectors: Water Treatment, Oil & Gas Heating, Ventilation and Air Condition (HVAC), and Aerospace.

T 0191 416 5222
www.adc-electrical.co.uk



REPAIRING MOTORS AND ROTATING EQUIPMENT FOR OVER 45 YEARS

"Our 15,000 sq. foot workshop with 5 Ton overhead crane capacity incorporates separate engineering, stripping and winding shops ensuring rewinds are carried out in a clean environment eliminating possible contamination between engineering processes."

- AC & DC Motor repair and rewinds
- Pump repairs
- Fan & blower repairs
- Transformer repair and manufacture
- Dynamic balancing
- VPI varnish facilities
- Prototyping services
- AEMT Ex approved hazardous area motor and pump repairs
- Specialist stator manufactures
- New motor and pump sales
- On site customer support
- Amtecs official northeast motor stockist

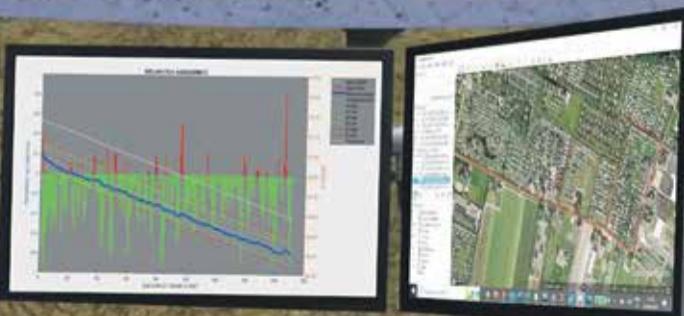
0191 4165222
www.adc-electrical.co.uk



Accurate As-built & Inclination Assessment in less than 1 hour

Verification of **new built** grade specifications

Grade A/B/C/D classification for **existing sewers**



Pioneering e-bike scheme reduces pump engineers' carbon footprint

Pump engineers who help to keep basements dry in central London have completed in excess of 500 jobs on new electric cargo bikes, which improve their carbon footprint and increase productivity.



The E-Team was launched in October 2022 by Packaged Pumps Systems (PPS), a Hertfordshire-based company which manufactures, installs, commissions and services basement pumps.

The introduction of e-cargo bikes has had an immediate impact on reducing carbon emissions, with the project on track to see each E-Team engineer use 8,000 fewer litres of fuel per year (160 litres every week). The bikes have a number of other environmental benefits, including contributing to reduced congestion and noise. They also cut down the amount of time engineers spend travelling, leading to an even better customer experience.

Jamie Lister, Operations Manager at PPS, said, "I'm thrilled with the success of our E-Team – a sustainable solution which brings a host of benefits for our customers, engineers and the environment.

"E-Team comes at an exciting time for Packaged Pumps Systems as we expand our team significantly to build an even stronger business. We are seeing a growing interest in our products and we're feeling positive about the future."

For more information, visit: www.ppspumps.com

Reduct NV

Protecting precious utility pipes with non-invasive gyroscopic pipeline mapping solutions



Reduct NV is a leading game changer in the world of mapping underground utilities. Working with numerous global partners, its cutting-edge gyro-based technology protects underground utility assets every day.

Founded in 2001, this ISO-9001 certified company uses precision-driven mapping solutions for all underground utility pipes and ducts regardless of material, depth or terrain.

In the UK, the underground utility domain is a vast labyrinth of ancient and new gas, water, electricity, cable TV, drainage, rail system and road tunnel systems, all jostling for position.

Existing underground utility positional data is not fool proof; thereby further pipe expansion increases the likelihood of further congestion and damage to underground utilities. It is imperative to provide the precise location of utility assets to mitigate the risk of damage from third party contractors who work to work in the vicinity.

The gyroscopic-based mapping from Reduct quickly ascertains the exact reading of underground pipes and ducts, creating a 3D as-built profile of the pipe. By placing this profile between the start and end coordinates of the mapped segment, the as-built map is created which can be uploaded to any GIS-platform.

The output of Reduct's solutions is so accurate that it can verify both pipe quality post-installation and the bend radius and inclination grades. This carries huge positive environmental health ramifications as some pipes contain hazardous substances. The accurate 3D mapping technology allows a crew of two to complete precision-mapping of a vast 3,000-foot pipe area within one hour.

For more information on how Reduct can provide gyroscopic mapping solutions for UK utility companies, see the website below:
T +32 34517739
info@reduct.net
www.reduct.net

Water Management

Bluewater says discovery of chemicals in tap drinking water in Denmark points to declining tap water quality even in developed countries

Bluewater, a world leader in innovating water purification solutions, says news that hundreds of different chemicals, several linked to illnesses, had been found in a new study in a single Danish water works underlines consumer fears that tap quality can no longer be taken for granted.

The study by researchers at the University of Copenhagen in collaboration with Danish water and wastewater company Novafos was published in the journal Environmental Pollution. The study, carried out at three separate Danish waterworks, found TCP, a toxic chlorinated substance used as an insecticide that can be carcinogenic, and melamine, which is used in the plastics industry and can damage the bladder and kidneys.

According to analytical chemist Selina Tisler, an assistant professor at the Copenhagen University Department of Plant and Environmental Sciences, other compounds potentially harmful to health



Tap water in London largely originates from the River Thames and other resources including groundwater sources, which is cleansed in freshwater treatment works

when in high-enough concentrations were also detected, including many other chemicals that no one knows the toxicity of such as benzothiazole, a compound used in car tires and on artificial turf pitches, that has shown high toxicity in cell tests and has never been found in Danish groundwater.

The researchers emphasised that they only have indications of how large the concentrations of individual chemical compounds are and therefore no health risk can yet be established with regards to tap water consumption.

Bluewater communications director David Noble (pictured right) noted that the water tested from the Danish waterworks complied with all existing



applicable regulations, "which indicates that consumers may well be drinking tap water that is potentially damaging their health and well-being." He said Bluewater, which markets water purifiers able to remove chemicals such as PFAS, believes more research is urgently required by national authorities "to identify exactly what chemicals are getting into our tap water and the health threats posed."

The Danish study, led Jan H. Christensen, a professor at the Department of Plant and Environmental Sciences, concluded broader monitoring was required as a major weakness in screening today is that public water and other agencies only require monitoring for a limited number of predetermined substances. They said despite a massive focus on PFAS substances and pesticide residues in Danish drinking water, little attention is paid to the hundreds of other chemical compounds in groundwater.

For more information about the study
Selina Tisler et al, Non-target screening of micropollutants and transformation products for assessing AOP-BAC treatment in groundwater, Environmental Pollution (2022) <https://dx.doi.org/10.1016/j.envpol.2022.119758>

Journal information: Environmental Pollution <https://phys.org/journals/environmental-pollution/>

For more information, please contact David Noble, Bluewater PR & Communications Director, at david.noble@bluewatergroup.com or call +44 (0)7785 302694 or visit: www.bluewatergroup.com



The Basement Pump Experts

With over 25 years' of experience in the submersible pump industry, Packaged Pump Systems (PPS) manufacture over 1,600 pump stations every year and provide exceptional aftersales care to over 5,000 property owners.

PPS develop, manufacture and install a range of supporting products to ensure the smooth running of our pump stations.

Call us on 0330 9000 999 or visit www.ppspumps.com



UKSTT website



Mentioned every year in the Chair's speech at the Annual Dinner & Awards Ceremony, the UKSTT website has a dedicated link for visitors to raise technical enquiries they may have concerning the world of trenchless working. The Technical Enquiry service is free and available to everybody through the UKSTT website. Anybody thinking of trenchless technology for a project, or with a problem for which they think there may be a trenchless solution can submit an enquiry and UKSTT will respond to the best of our ability and knowledge.

As part of the Corporate Membership benefits package many of these works associated potential advisory/problem solution queries generate business directly or indirectly for our members. The service is managed by the Society's Technical & Education sub-committee. After receipt the team review the information and either respond directly or circulate the enquiry to members who are able to offer their service.

The estimated approximate value of the potential work circulated to our corporate members through this system each year regularly exceeds £1million.

If you have a question, please email: admin@ukstt.org.uk or even better support part of the work of the Society and become a member. What's to lose, give it a try.

TRENCHLESS TECHNOLOGY FREE TECHNICAL ENQUIRY SERVICE

FOR ALL YOUR ENQUIRIES REGARDING THE
INSTALLATION & REPAIR OF UNDERGROUND UTILITIES

30 1993 - 2023

United Kingdom Society for Trenchless Technology

+44 (0) 7745 781500
admin@ukstt.org.uk



Industrial pumping solutions bespoke to your application
designed and built in the UK since 1988

APEXPUMPS

CENTRIFUGAL PUMP MANUFACTURERS

For further information please contact us on:
0117 9077555 email: sales@apexpumps.com

apexpumps.com



Gas Detection

OBW Technologies
Simpler. Easier. Efficient.

Portable Gas Detectors
Fixed Gas Solutions
Project Management Services
Calibration & Servicing

Visit Us Today

[www.csogroup.co.uk](#)

Terminodour

CSO Group
AD & Pollution Solutions

Terminodour Ionised Air Solution for Odour Control Applications

[www.csogroup.co.uk](#)

Construction

Your experts in Mining, Quarrying and Construction

[www.tecman-rockbreaker.co.uk](#)

tec man

To advertise here, please call **0121 550 7510**

Separation Technologies

QUALITY PRODUCTS & SERVICES

euroby

SALES • RENTAL • MAINTENANCE •
REFURBISHMENT • SPARE PARTS •
SUPPLIERS OF LIQUID AND SOLID
SEPARATION TECHNOLOGIES TO THE
WATER AND INDUSTRIAL MARKETS

Euroby Ltd
New Dawn House, Gorse Lane,
High Salvington, Worthing, Sussex BN13 3BX
T - 01903 69 44 00 [www.euroby.com](#)
F - 01903 69 44 77 E - [sales@euroby.com](#)

Energy Metering

METERING DOCTORS
LET US SOLVE YOUR METERING PROBLEMS

EMT resolves issues with meters and aM&T systems that have been badly fitted or wrongly installed.

Tel: 01628 664056
Email: [enquiries@meteringtech.com](#)
[www.energymeteringtechnology.com](#)

Engineering

GLOSTA ENGINEERING

General Engineering - Container Fabrication

0161 725 9134
[sales@glosta-engineering.co.uk](#)
[www.glosta-engineering.co.uk](#)

Waste Compactors

NUMAC

Your first stop for portable waste compactors

028 308 51791 [info@numac.co.uk](#) [www.numac.co.uk](#)

Wastewater Treatment

LEACHATE SOLUTIONS

Pump Sales, Service & Repairs, Supply & Installation of -
Pumps & Pumping Equipment
Flow Meters - Magflow, Ultrasonic, Doppler
Level Control Systems
On Site Instrument Calibration
Pump Condition Reports, Maintenance &
Pump Maintenance & Management
Water & Waste Water Management

01772 806593 07764 449193
[enquiries@leachatesolutions.com](#)
[www.leachatesolutions.com](#)

Air & Gas Purification Systems

HIGGINS & HEWINS
Air and Gas Purification Systems

Specialists in:
• Odour Control
• Biogas H₂S Removal
• Corrosion Control
• Chemical Dry Scrubbing Media
• Packaged Units for Hire
• Sales/Service

Tel: 01384 397700
Fax: 01384 397701
[www.handh ltd.co.uk](#)

Hot Water & Heating

ADVECO
HOT WATER SPECIALISTS

HEAT PUMPS | SOLAR THERMAL
WATER HEATERS | BOILERS
CYLINDERS | PACKAGED SYSTEMS
DESIGN & SUPPLY FOR COMMERCIAL PROJECTS
Tel. 01252 551 540 [www.adveco.co](#)

Water Solutions

control water solutions

Monitoring, Dosing & Control Equipment for Industrial Water Treatment Applications

Tel: 01562 743656
[www.controlwatersolutions.co.uk](#)

Minerals and Waste Consultants

MPG

MPG specialise in the planning and permitting of minerals and waste sites, alongside their ancillary developments such as aggregate recycling and waste transfer facilities, across the UK

01274 884599 [www.mpgyorks.co.uk](#)

Dust Suppression

Marsh Machinery Ltd
Dust Suppression Specialists

Units available for purchase or hire
01606 841925 / 07836 231402
[enquiries@marshmachinery.co.uk](#)
[www.marshmachinery.co.uk](#)

Air Conditioning TM44 Inspections

CUBIC APPLE
TM44 - EPC - DEC - WRA - FRA

Energy Performance Certificate
Display Energy Certificate
Water Risk Assessment (Legionella)
Fire Risk Assessment

We cover the UK NI & ROI
ATHERSTONE WARWICKSHIRE CV93AD

Tel: 01827 713 870
Email: [accounts@cubicapple.co.uk](#)
CUBICAPPLE.CO.UK

Water Treatment

WATER PROCESS SOLUTIONS

Engineered solutions to a wide range of water treatment problems

01622 719945
[enquiries@waterprocesssolutions.com](#)
[www.waterprocesssolutions.com](#)

Finance

Cash neutral asset finance for your energy needs

For over 30 years AFM Solutions has been offering long and medium term finance for all your sustainable energy needs.

afm.
SOLUTIONS
FOR TECHNOLOGY FINANCE

- LED Lighting & Controls
- Solar Photovoltaic
- Solar Thermal
- Voltage Optimisation
- Biomass Boilers
- Wind Turbines (small)
- Heat Pumps
- Building Management Systems

Call or email Mike Baker on 01268 572587
[mbaker@afmgroup-solutions.co.uk](#)
[www.afmgroup-solutions.co.uk](#)

Crusher Spare Parts

KEEPING YOUR CRUSHER CRUSHING

We stock a full range of wear and spares to suit all major crusher brands

CRUSHER SPARES LTD

+44 (0)1443 228329
[info@crushersparesltd.co.uk](#)
[www.crushersparesltd.co.uk](#)

Transfer Systems

Process Combustion
COMBUSTION & HEAT TRANSFER SYSTEMS

- Waste to Energy Systems
- Thermal Oxidisers
- Control Systems
- Skid Systems – Pumps, Valves, Pipework

+44 (0)1423 879944
[mail@process-combustion.co.uk](#)
[www.process-combustion.com](#)

Kickstart recycling with shredding: new R&D facility allows 'testing before investing'

In this issue of Sustainability Today, we are proud to announce Ulster Shredders as our Shredder Manufacturing Company of the Year.

Industrial recycling remains rightfully, a hot topic across global business sustainability targets, as we edge towards a total circular economy.

Ulster Shredders has been a stalwart manufacturer of industrial shredders for over 50 years, providing everyone from SMEs to national recycling organisations with world-class shredders. These phenomenal shredders have impressive shred capacity across a diverse range of materials from: paper, plastics, biomass, computer hard drives, glass, wood, tyres, metal and clinical waste. The U-45 shredder was even adapted to help clean up plastic waste across the Irish seas, shredding plastic waste collected by fishermen and even recycling end-of-life fishing nets.

As the leading manufacturer of industrial shredders, these precision-designed shredders can handle everything from production processing, mobile shredding, confidential waste to volume reduction, propelling the circular economy.

The experienced sales and engineering team are also happy to design and manufacture bespoke shredders, mobile or otherwise for customer applications.

Based in Castledawson Magherafelt, Northern Ireland, this globally renowned AAC ISO 9001-company was founded by Jack Gowdy in 1970. With an initial remit working in partnership with the aerospace and textile industries, the company has diversified over the years to specialise in industrial shredding manufacturing.

With an existing state-of-the-art 40,000ft² manufacturing facility, dedicated CNC machine shop and assembly area, the company has kickstarted 2023 with a brand new 5,000ft² research & development facility. Using the framework of, 'testing before investing,' customers are invited to safely view the testing of products for shredded output.



The R&D facility houses the full range of shredders, conveyors and hoppers and welcomes customers to book a demo to see the next-generation R&D facility in action, with specific configuration to demonstrate pre and post shredded materials.

We caught up with Edele Mallon, Marketing Officer, to find out more about this pioneering company and how it's fared over the last 12 months.

"This last year has been challenging given the current economic climate but rewarding. We have continued to work hard to support our existing customers through our aftersales teams as well as securing some new business customers."

"We have attended a variety of trade events post-COVID and are delighted to be able to once again interface with existing customers & new contacts."

"We have also added new members to team in a variety of roles, managerial, design and operational roles. We have launched new products to complement our range as well as our new R&D facility."

The team successfully showcased the T-50 4-shaft shredder at the IFAT 2022 Expo, to impressed industry enthusiasts. The ergonomic shredder is user-friendly, offering a cost-effective one-stop-shredding application, across numerous applications. The advanced shredder is powered by two electric motors, driving the four



shafts through a series of reduction gears.

The T-50 has been expertly designed to allow versatile application feeding from all sides via the conveyor belt, forklift, tipping devices, or indeed manually. Designed to be effortlessly added to pre-existing production lines; compatible with upstream or downstream shredding solutions, this shredder is suitable for many operations.

The T-50 is particularly well suited to the more challenging materials from mixed material streams, plastics, piping and wood, guaranteeing a high throughput to regulated particle size.

"From the T-50 showcasing to our new R&D facility, we have weathered the last 12 months remarkably well, showing timely business acumen. We have doubled our engineered capacity and welcomed two new Business Development Managers on board: Jude & Chris, working alongside our Sales and Service Director, Paul Atkinson, who has been with the company for 25 years."

"We continue to provide first-class turnkey solutions for all our customers, assisting with the full product lifecycle from design, installation, dedicated after sales, inspections, service, and repair."

"We can provide spare parts from our well stocked supply, across the UK and Ireland within 24 hours. With our in-house manufacturing facilities, we can offer competitive, reduced lead times," continues Edele.

This pioneering company puts customers at the heart of its operations by providing comprehensive training programmes for all machine operators, from novice to advanced levels. The training provides operators with all the necessary skills to operate the shredding machinery at the highest level, offering assured health & safety compliance and confidence.

The waste and recycling industry has driven machinery design over the years and all customers are welcome to contact Ulster Shredders, to test



new material shredding. This prototype testing helps to push the boundaries in the recycling industry: adjusting and recalibrating the machinery to accommodate new materials.

With cutting-edge in-house 2D and 3D CAD systems, the engineering team at Ulster Shredders can continuously design and evaluate shredding capabilities. With the Autodesk Inventor: a 3D solid modelling and 2D draughting software package, the team can visualise a virtual 3D modelling of components, driving high standards and manufacturing perfection. This investment in state-of-the-art digital technology has allowed Ulster Shredders to maintain its position as manufacturer of industry-leading shredders.

The future looks bright for Ulster Shredders as Edele outlines, "We are excited to be launching further new products over the next year, hopefully launching at some trade shows across the UK and Europe."

"We will continue to scale up operations to meet demands, as the recycling industry heads towards the 2050 UK Government net zero targets and all eyes are on 100% business sustainability."

"Our in-house engineering team never stop and they are busy focussing on existing product enhancement features."

"We are of course, delighted to be recognised as the shredding manufacturer Company of the Year. It is a privilege, an honour and a fitting tribute to the hard work of all the Ulster Shredders' team."

Ulster Shredders will be at Plastics Live 2023: Coventry Building Society Arena from 10-11 May, the E-Waste World Conference & Expo in Frankfurt Messe on the 28-29 June and will be returning to RWM/Lets Recycle Live on the 13-14th September.

To book a free demo at the new R&D facility or to view the full shredder range, see below:
T 028 7965 0050
info@ulstershredders.com
www.ulstershredders.com



Inspiring rural entrepreneurs

Farm Business Innovation 2022, held at Birmingham's NEC from 2-3 November, brought visitors an incredible two days full of unmissable insights into the latest revolutionary products transforming the industry.

Farm Business Innovation is Europe's largest event for farmers, country house estates, and landowners who are forward-thinking and looking to diversify into the leisure, hospitality and tourism industries. Co-located with 3 other shows, especially Holiday Park & Resort Innovation, which is also covered in this review.

66% of all farm businesses in England also run other enterprises – such as farm shops, wedding venues and B&Bs – generating an income of £680 million in 2017-18, to the UK economy. The event was specifically designed to enable visitors to meet the faces of the industry, with 1,000 leading exhibitors ensuring visitors were able to try, touch and test all of the latest products, solutions, and systems from across the globe that are driving innovation.

Plus an incredible line-up of speakers allowed visitors to choose from over 500 seminars, where



key individuals and experts in their field shared their insights and expertise, and divulged their own secrets to success, enabling visitors to return to their own business armed with ambition and brimming with ideas and inspiration.

Farm Business Innovation 2023 & Holiday Park & Resort Innovation return to Birmingham's NEC from 15-16 November this year. This is our pick of the best exhibitors from last year's event. Further details can be found on this page and the next two.

www.farmbusinessshow.co.uk
www.holidayparkshow.co.uk

Introducing Luxewood™: The superior wood alternative

Even the highest quality hardwoods will warp, fade and very quickly lose their original appeal. Luxewood rivals wood as the material of choice for numerous applications, including dining tables, picnic benches, fire pit tables and casual seating. Our wood grain material has classic organic lines and is free from artificial shapes or repeat patterns. Unlike wood, Luxewood never needs to be sealed, stained, or sanded and painted and will never rot, splinter or crack. Virtually indistinguishable from natural



timber. Mix and match colour and textures to create something unique. The material is highly resistant to stains and a simple clean with soapy water is all that is required under normal circumstances. At Luar we are always trying to push the boundaries of innovation and technology to spawn new ideas and products in the market.

alex@luarfurniture.co.uk



Carbon and Finch transforms businesses with enterprise-grade, high-performing software solutions. As a Microsoft Partner, we deliver industry-specific services to a wide range of global clients, utilising our deep technical knowledge, passion and experience.

We are a team of talented developers and creative designers who offer on-demand IT services to help you scale in new ways.

We understand that implementing a new system can be a daunting task. That's why our team of experts is here to guide you every step of the way.

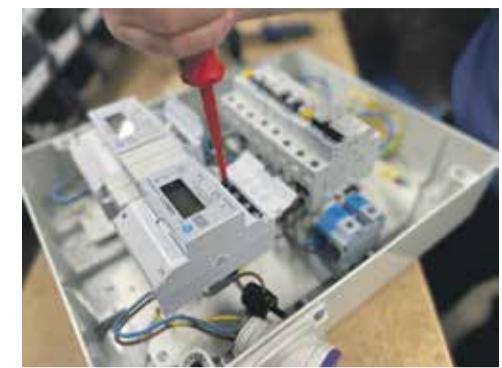
Our implementations services cover a wide range of areas, including:

- ✓ Project Planning and Management
- ✓ System Configuration
- ✓ Data Migration
- ✓ Training and Support
- ✓ D365 F&O Package
- ✓ Business Review Surface
- ✓ Sales and Marketing Automation

www.CarbonandFinch.com
01372 303304

Caravan Park Electrical Services

Caravan Park Electrical Services (CPES) offers a complete 360 solution from sourcing components & accessories to manufacturing a vast range of products including; Connection Units, Multi-Service Bollards, EV Chargers, Lighting, Distribution Units & Mains Panels. Our highly experienced & dedicated team is available to handle your enquiry, design, quotation, production & installation of the most up to date electrical distribution systems.



Our portfolio includes a number of metering options, ranging from read-only to SMART metering technology, meaning we really do have something to suit everyone! A popular choice is our Alpha RFID pre-payment metering system, allowing you to receive customer payment prior to consumption.

Supported by Alpha software, you'll issue the customer with their reusable SMART card, which they'll use to upload credit to their meter. This simple system has been a solution for many when it comes to installing new units or retro fitting a meter their existing enclosures or touring bollards.

As many are looking at ways to reduce running costs,

solar lighting has increased in popularity. We stock both high & low level solar options which are zero emission & have zero energy running costs due to being powered by the natural sunlight.

If you'd like advise on altering your electrical infrastructure, simply call us on 01790 753153 or email: sales@cpes.co.uk – alternatively to learn more about the services we offer or view our product portfolio, visit: www.cpes.co.uk

Mortgages for farms and land-based businesses

Agricultural and rural businesses are diverse and unique. They require a particular expertise to understand and, therefore, accessing funding can be a challenge.

As specialist, independent rural mortgage consultants, Rural & Business Specialists (R&BS) can help these businesses apply their ideas and fulfil their dreams – whatever the property type (ie. farms, country houses, equestrian or the array of countryside businesses).

The key actions for these businesses to increase the chances of achieving their dreams are:

- **Start planning immediately.**
Don't 'wait and see'.
- **Make decisions** based on your own research. Don't be beholden to uncertain economic forces.
- **Work on business plans and financial forecasts** based on realistic assumptions.
- **Put building blocks in place**, ie. arranging grants and planning permissions, to be ready to act when opportunity arises.
- **Speak to banks and advisors** about borrowing now. Understand the information you need, and present it to several lenders in the way that maximises your chances of success.



Borrowing is a serious decision – it's crucial to get the right terms in place. Professional support will help that happen. With expert consultants to personally guide them, R&BS clients will be in the safest pair of hands to turn their dreams into reality.

North, Wales & Scotland
0800 781 1822
South & East Anglia
0800 781 0639
hello@randbs.co.uk
www.ruralmortgages.co.uk

Sales Innovation Expo Review – Top Exhibitors

Showcasing the future of sales

Sales Innovation Expo, held at London's ExCeL from 22-23 November 2022, was on a mission to inspire visitors, highlight innovation and improve their business. This event was packed with expert speakers, industry leading exhibitors and live demos that left visitors buzzing with ideas. Visitors were also able to network with thousands of other like-minded professionals who were as passionate about sales as they are.

The event featured sessions on everything from Sales Engagement, Enablement and Intelligence to Leadership and Sales Techniques along with chances to experience some truly cutting-edge technology first hand.



Visitors were able to meet over 350 of Europe's top suppliers, take advantage of free consultations and product demonstrations that will provide their team with the tools they

need to succeed.

Having enabled thousands of sales teams from across the globe to optimise their performance and, ultimately, their ROI, the Sales Innovation Expo is well known as Europe's leading and favourite sales event.

Sales Innovation Expo returns this year to London's ExCeL from 29-30 November 2023. This is our pick of the best exhibitors from last year's event, listed here in alphabetical order: Carbon & Finch. Further details can be found on this page.

www.salesinnovationexpo.co.uk



With our onshore and offshore development resources, we provide flexible development services that meet your specific needs, timeline, and budget.

From shaping ideas and getting projects off the ground, We can help.

Contact: Jimmi Jakobsen
0161 907 4721
support@carbonandfinch.com

Carbon & Finch

Carbon & Finch is a Microsoft Technology consultancy that helps businesses with high-performing software solutions. We are a team of talented developers and creative designers who offer on-demand IT services to help you scale in new ways. We've been designing and refining technology solutions for over 25 years.

As a Microsoft Partner, we deliver industry-specific services to an array of clients across the globe.

Our implementation services cover a range of areas, including:

- Project Planning and Management
- System Configuration
- Data Migration
- Training and Support

We understand that every business has unique needs that can't be fulfilled with out-of-the-box Dynamics 365 F&O solutions. That's why our Development Services are tailored to your specific requirements.

Our experienced developers work with you to design, develop, and deploy custom solutions that help you to optimise your business processes.

Our development services include:

- Custom solution design & development
- Integration with third-party applications
- Custom reporting and analytics
- Data migration and management
- Workflow automation
- UI/UX design and optimisation

Arkem Leisure Ltd

Camping and glamping holidays are more popular than ever, and those enjoying them are looking for a luxury experience with year-round use-ability. This makes now a great time to improve on or add to the facilities that you offer.

Arkem Leisure Ltd is the UK's leading manufacturer and supplier of premium portable toilet and washing facilities for camping and glamping sites, leisure, hospitality, and caravan parks.

Fully manufactured in our Lichfield workshop, there is no downtime required on your site – saving you time, money, and all-important visitor access. Built on a chassis they simply wheel or lift into position and are ready to connect.

As experts in the industry we know that no two sites are the same, so all of Arkem Leisure's portable blocks are individually built to your exact requirements – any size, colour and interior specification. We offer direct access, fully accessible or cubicle style toilets and showers, covered wash up areas, boot rooms, changing rooms, vending rooms, offices, recreation rooms, reception areas, shops or



cafés... if there's something your site needs, we can build it for you.

A low maintenance luxury alternative to traditional toilet and shower facilities, our blocks will impress your guests and leave a lasting impression.

Marcus +44 (0)7973 898079
marcus@arkemleisure.com
Tom +44 (0)7817 020929
tom@arkemleisure.com

Electrical vehicle charging points for the home & workplace

With the number of electric vehicles continuing to rise year on year there is no better time than to consider making the switch. Of course, switching to electric has its downfalls, but with Charge ur Vehicle it is now easier than ever to make the change with their professional range of high-quality electric vehicle charging points.



within your park can immediately make your business more attractive to holiday makers across the UK.

You have the flexibility of choosing between the Rolec, Myenergy, Project EV or many other manufacturers to attract and retain eco-conscious customers while simultaneously helping you to meet your corporate emission reduction targets.

Check out all the latest EV Smart Chargers available to suit your requirements and budgets below.

Call Michelle on 07510 675709.
www.chargeurvehicle.co.uk/electric-vehicle-charging-infrastructure-for-uk-staycations/

As a Government Grant Installer, Charge ur Vehicle has a smooth and simple installation process. Using OLEV qualified technicians and installers you will receive an excellent and friendly service that is time efficient, causing minimal disruption.

As stand out exhibitors at the Holiday Park & Resort Innovation Show 2022, Charge ur Vehicle was inundated with interest from potential customers as they displayed their Domestic, Workplace, and Commercial Chargers.

Perfect for UK staycations, an Electric Vehicle Charging Infrastructure is a great way to increase your sustainability efforts while giving customers the facilities they need on their holiday. Offering a hassle free, greener solution to public EV charging points, by installing a Commercial EV charging infrastructure

Award-winning products for the leisure sector

Aqualand Industries design award-winning ride-on vehicles specifically for the leisure sector worldwide. Find us at anywhere where there is fun and excitement to be had. The products are next generation electric vehicles, clean, zero emission, battery powered adventure and exploration activities.



The Crazi-Bugz is an all-electric off-road experience and the perfect test of skill and coordination, whilst providing great fun and a sense of freedom. These UK designed and built, mini, six-wheeled buggies will let younger adventurers' whizz around a multitude of terrains giving them a taste of driving off-road in the real-world. Suitable for 6-14 year olds.

The Adventure-Trukz are designed to give 4-12-year-olds that taste of freedom on the open road! A fun driving experience that is designed to make the driver smile, it gives kids their first taste of driving with a gear stick to go forward and backwards and electric braking.

Aqualand Industries offers a comprehensive support and maintenance package with a rapid response call-out and full UK coverage.

With flexible payment options and a track planning consultation, new and existing customers will be taken care of from wheel to track.

For a free product demo and more info, see below:
M 07445 465526
cameronsteele@aqualand-industries.com
www.aqualand-industries.com

AQUALAND INDUSTRIES™
 Award-winning, durable products for the leisure sector

CRAZI-BUGZ®
 Powered Adventure Play
 6 wheel drive design
 All terrain adventure
 Made for 6-14 years
 Long battery life

ADVENTURE - TRUKZ®
 Powered Adventure Play
 Made for 4-12 years
 1st driving experience
 2 seater design
 Long battery life

Call or email for a demo – 07445 465526
cameronsteele@aqualand-industries.com

We offer technical support and UK wide breakdown response.
 We hold parts stock and have our own maintenance team on hand to keep you running smoothly.

Klargeter Commercial BioDisc®



Did you know with our Klargeter Commercial BioDisc® you could save up to 67% on energy and 34% on costs over a 20 year period compared to an aerated system?

Our Klargeter BioDisc® is a single packaged system, which offers affordable lifetime running costs due to its design and operational efficiencies. It is suitable for a variety of commercial applications – from hotels to offices, pubs to campsites and domestic wastewater from industrial buildings. The Klargeter BioDisc® is also fully compliant with European Standards, including EN 12255.

Kingspan Klargeter has more

than 68 years of experience providing expert advice and support based on our in-depth local knowledge and expertise. Offering comprehensive free site visits, professional installation options and expert after-sales care through our in-house service team and our national network of Kingspan Klargeter accredited installers and service partners.

With strict Environment Agency standards, it's more important than ever to choose a sewage

treatment plant that offers peace of mind with reliable and consistent treatment of wastewater.

To find out more about the cost benefits of choosing the Klargeter BioDisc®, or to arrange a free technical site visit, contact our expert advisors today.

Contact
T 01296 633033
klargeter@kingspan.com
www.kingspan.co.uk/klargeter

Walter Geering

Established in 1903, Walter Geering is an industry leading supplier to Holiday Parks across the UK, specialising in eco-friendly toiletries and welcome packs including kitchen and bathroom packs, pet packs, games night packs, birthday packs, to name but a few. Walter Geering also offers a comprehensive collection of bedroom and bathroom accessories, bedding, linen and towels.

We have led the toiletry and amenity market for a number of years thanks to our innovative products and eco-friendly credentials. We want to contribute to a circular economy where packaging material never becomes waste, but is recycled, reused or composted. We continue to invest time and money to reimagine and redesign our packaging. This includes designing a completely new range of packaging types across our diverse welcome pack portfolio.



When your guests first arrive at your accommodation, the last thing they are thinking about is whether there will be essentials such as washing up, liquid, black bin bags a sponge or cleaning cloth. However, these are the kinds of items your guests will need before too long. Fortunately, with our cost-effective and highly

practical kitchen packs, your guests will not have to worry too much for those first few days.

Contact Walter Geering today and quote BUSI10 for 10% discount on your first order:
T 01233 658085
sales@waltergeering.co.uk
www.waltergeering.co.uk



Walter Geering
 Established 1903

Walter Geering is a leading supplier to UK holiday parks and accommodation providers, offering bespoke and branded kitchen and consumable welcome packs, toiletry packs, pet packs, games night packs, birthday packs, bathroom dispensers, toiletries and amenities. View our full offering online.

Quote BUSI10 for a 10% discount off your first order

WWW.BUSI10.E-SALE@WALTERGEERING.CO.UK | WWW.WALTERGEERING.CO.UK

Classic bespoke lodges for high-end holiday resort parks

Many UK holidaymakers have opted to extend the COVID staycation trend by staying in luxury lodges on beautiful holiday resorts around the country, rather than going abroad. Park and leisure resort owners have or are busy investing in high-spec luxurious lodges, creating a home-from-home atmosphere for guests.

Kingston Park and Leisure Homes is a leading UK luxury lodge manufacturer, designing and installing bespoke lodge solutions across the UK.

The company was inception in 2018, while its sister company, Kingston Modular Systems was established two years prior in 2016 by joint owners: Kris Robinson, Carl Galbraith and Jon Bradshaw.

Based in Hull, this NCC-affiliated member; manufacturers bespoke lodges, from an astonishing six-million design portfolio. Due to its vast history in the modular building industry: from public sector school and hospital contracts, through to multinational four-storey projects, the team has extensive, thorough knowledge of the building industry.

Kingston Park and Leisure Homes recently exhibited at The Holiday Park & Resort Innovation 2022, at the NEC from 2-3 November, alongside 500 other exhibitors and over 11,539 visitors. It was the perfect opportunity to network with Sales Directors from boutique park and leisure resorts across the



country, showcasing its impressive design lodge portfolio capability.

We caught up with Steve Taylor, Sales Director, to find out more, "The Trade fairs in our industry are expertly designed for networking but we are in it for the long-game. Much of our repeat custom comes from large-scale investments, which takes time to bear fruit. Designing and installing luxury lodges is a big decision but our customers know that we will offer high-end, stunning bespoke lodges, with quick delivery times, all meeting current building-compliance regulations."

All of the company's park and lodge homes are built to the latest BS3632:2015 and fire safety regulations, offering guaranteed peace of mind. However, the lodges surpass all competitive models by providing roof structures that can withstand a one-in-a-hundred-year storm: added assurance for



increasing unpredictable UK weather, due to climate change.

With sustainability becoming centralised across the construction industry: Kingston Park and Leisure Homes ensure that all roofs are compatible with solar-panel installations. The design team are currently looking at ground/heat-sourced pump feasibility, for imminent future designs; encapsulating the greenest lodge models available going forward.

The cabins are inspected after the first year and beyond that, a complete building warranty is offered.

The company can offer a fully bespoke solution package: encompassing other amenity and facility building beyond the lodge designs, as Steve explains, "We can offer any design lodge between 22x14 to 65x22, and anywhere in-between. Some customers want us to build a blank canvas, allowing them free reign on interior design. Other customers



will have a theme or colour scheme in mind and will ask us to provide full furnishings. We can provide full turnkey solutions, for ease and convenience in today's busy world. Alongside the luxury lodges, we can provide laundry rooms, security gatehouses, toilets, gym/spas, bars/restaurants, the sky's the limit!"

The Pinewood Resort: a boutique holiday park in Lyme Regis, Dorset has recently installed some Harmony lodges. These are high-end designs, with low-maintenance exterior CanExcel cladding in a variety of colours. The open-plan living design gives a fresh, contemporary feel, while the walk-in wardrobe in the master bedroom, gives a glamorous, sophisticated touch.

The Kingston Park and Leisure Homes team will be unveiling its latest, exclusive Palazzo 2024 model (40x20) at The World of Park & Leisure Homes Show: 9-11 June at Stoneleigh.

For more information or to book your on-site consultation today, see the website below:
T 01482 835835
sales@kingstonplh.com
www.kingstonplh.com



AA+D's Pioneer Nature Method

We help rural property investors looking to develop a retreat, who are contemplating a significant investment without knowing their best options. We draw magic out of their site with sensitive and exciting design and without compromising the natural environment.

We create projects from start to finish leading 'the untrodden path' to discover sustainable and adaptable ways to enrich our client's experience. Our clients go from unsubstantiated dreams and tentative decisions to real plans and the realisation that exceptional design can be built into outstanding landscapes.

We use our visionary 'Pioneer-Nature Method' and manage the evolution and sustainability of a landscape. We have a vision for the long term. How can we make your project more sustainable? Certainly, we have the architecture, materials,



energy, cooling, life cycle costs to consider, but we also embrace a collective vision of the whole team, including the clients, consultants, suppliers, and the contractors. We assure maintaining and fulfilling strategies for users and community goals to deliver successful project outcomes.

T 01442 828201
info@atelier-architects.co.uk
www.atelier-architects.co.uk

Mooble House UK

Each Mooble Tiny House is built on AL-KO twin axle chassis and have domestic-style fittings to make them durable and comfortable as business units, accommodation for glamping, campsites and holiday parks, or as a home office or extra room. They are fully insulated to enable them to be warm and comfortable all year round and can be self-contained, or connected to full mains services.

A sturdy steel-frame construction and wood-panelled side walls make them strong and durable, plus they are also fully road legal so can be towed anywhere by a vehicle with a towing capacity of up to 3,500kg, making them easy to deliver, set-up or move as required.

There are five Mooble House models available, ranging in size from 4.5m to 6.75m body lengths, each with double-glazed aluminium windows and doors, fitted kitchen units and a bathroom with shower and toilet, plus an extensive list of options to customise specifications to suit every budget. They can sleep up to four people, with some models



featuring a bedroom on a mezzanine level.

Mooble House has appointed Adventure Leisure Vehicles in Tebay, Cumbria as its sole UK agent.
Showroom: Adventure Leisure Vehicles, Tebay, Cumbria CA10 3SS (Jct 38 – M6)
T 01539 624141
sales@mooblehouseuk.com
www.mooblehouseuk.com

Tapp'd Cocktails

Tapp'd Cocktails is a ready to drink bottled and canned cocktail company based in Essex. Launched in 2020 with a mission to be the UK's largest RTD cocktail brand.

"We are proud of our reputation for the quality and taste of our drinks which we develop with leading industry experts. Since launching we have seen great success with our customers and partners nationwide.

"We are thrilled to complete some major achievements for the brand such as, securing multiple UK supermarket deals, working with the largest UK distributor – Molson Coors. Launching our flavours in international waters such as France, Spain, Australia

and The USA and continuing our relationship with QVC UK & Europe." – Tony Plato MD

"We carefully select the finest ingredients including real fruit, ethically sourced coffee, and award-winning spirits to create ready to serve cocktails that taste exceptional and pour perfectly, every time."

17 flavours which are gluten free, vegan, and free from any artificial flavours and preservatives each bottle is a perfectly portioned 175ml 10% ABV serve and the canned range is 250ml 6% ABV serve.

"We wanted to offer our customers the elevated experience and a higher ABV is exactly how we have



achieved this."

Contact
T 01702 936500
sales@tappdcocktails.com
www.tappdcocktails.com
@tappdcocktails

markilux UK

Hours of relaxation or valuable time well spent with your family and friends – these are the precious moments in which you cherish your outdoor lifestyle. Designer awnings from markilux not only provide shade; they open new opportunities for enjoying life outdoors, in the fresh air – that is pure quality of life.

As a successful and reliable manufacturer of awnings and shading systems, markilux 'Made in Germany' is number 1 in the awning market and truly the best under the sun. We are specialists and pioneers for the development of tailor-made sun protection systems that convince people technically and inspire them emotionally.

For over 50 years, we have been developing and manufacturing top-quality solar protection solutions characterised by their first-rate, multi-award-winning design and innovative technology. The production of awning and cover under one roof is the essence of what markilux 'Made in Germany' represents. With a choice of more than 40 models, over 200 timeless



cover patterns and a wide range of accessories, you can design an awning to suit your every need.

Through trust, respect and commitment to quality, innovation, technology, and design, markilux is sure to deliver the most alluring shade in the world to your home or business.

Head Office 01244 689933
London Showroom 020 7288 6810
info@markilux.com
www.markilux.com

High-quality and customised marking systems

With effect from 01.01.2023, the SIC Marking Group has taken over the German company Nill + Ritz CNCTechnik.

GmbH and is expanding its range of marking systems for all industrial applications. The portfolios of the two companies complement each other perfectly – and the German SIC Marking GmbH is thus strengthening its presence in Germany.

From simple manual marking to automatic dot peen marking and individual marking with high-performance laser marking systems: The SIC Marking Group, headquartered near Lyon/France, has made a name for itself worldwide when it comes to product marking as well as data-supported product identification and tracing in the automotive, aerospace, mechanical engineering and energy markets, among others. The focus is on high-quality marking systems, which can be ordered as standard systems or customised. Around 450 employees work in the entire group.

In this context the 'perfect fit', resulting from the recent takeover of Nill + Ritz CNC-Technik GmbH



in Markgröningen near Stuttgart, is obvious. The company, which was founded in 1993, has about 25 employees who design highly individualised marking stations and supply them to well-known customers in the industry.

Michael Endemann, Managing Director of SIC Marking GmbH in Germany and new Managing Director of Nill + Ritz, said, "With the takeover of Nill + Ritz, we are supplementing our product range with advanced customised marking solutions based on dot peen, scribing and laser technologies."

www.sic-marking.com

Offshore & Subsea

Oliver Twinsafe customises valve for Gryphon FPSO

Oliver Twinsafe manufactures a 10" x 8", 900 class valve as a customised solution for the Maersk Gryphon floating production, storage and offloading vessel (FPSO) that's now owned by Total Energies and is operating 200 miles off the Aberdeen coast. The vessel is connected to subsea well clusters at a water depth of 112 metres, and equipped with topside production facilities to separate gas, oil, water mixtures and compression of gas for export.



Offshore installations such as an FPSO, give critical consideration to the space and weight of valve design, so compact design is key. Twinsafe manufactured a valve to

within the same space as a single isolated ball valve, but with two isolates and a bleed valve positioned in between to maximise safety.

The first isolated ball valve is fitted with a Rotork spring pneumatic actuator that's fitted with a limit switch for remote and local visual indication of the valve position, and a control panel containing the air filter regulator and solenoid valve. The second isolated valve is fitted with a manual gearbox.

To find the perfect valve solution for your project, telephone Oliver Valves on +44 (0)1565 632636 or visit: www.valves.co.uk

Digital Edge Subsea

Digital Edge Subsea supplies the oil and gas industry with its digital video recording system. The company, established more than 10 years ago, has nurtured strong customer relationships that has allowed for honest customer feedback, and this has been incorporated into the development of the Version 5 Edge DVR. Conversations continue and now Digital Edge are pleased to be able to offer further software that will help their customers to serve their clients better.

Data Archive App

Digital Edge will soon release a data storage and back-up solution that uses an integral app within Edge architecture, to avoid needing a 3rd party app. Edge Archive handles the transfer of data from the internal DVR drives to Client storage, either on a NAS, a Raid, or a phased delivery to multiple external hard drives. Being a Native app, the data transfer ensures that the quality of Live recordings are not impacted by a 3rd party program trying to access the same file that the DVR app is currently using. Ensuring recorded data integrity and quality is of the highest importance. Archive can act as a Simple data mirror of the correct internal drive data folders, or can be used to create multiple simultaneous backups of Client Deliverables. This can be done in continuous backup or a phased approach, ie. after each dive.

For more information or a demonstration of the system, contact: info@digitaledgesubsea.com or visit: www.digitaledgesubsea.com

OFFSHORE DIGITAL VIDEO+INSPECTION SYSTEMS

INTRODUCING EDGEDVR

The EdgeDVR is currently used worldwide by most of the major ROV and Diving contractors. With our Version 5 software, we have 6 models. The EdgeDVR has become an essential part of any ROV and Diving system offshore, easy to use and reliable. The system is capable of recording simultaneous High Definition and Standard Definition video, together with auto creation of Dive, Video, Photo and Anomaly logs. Multi channel digital overlay is also available for all recorded channels, logos and realtime survey data can be displayed. With around 800 systems now offshore, we have a proven record of reliability.

Diving | Workclass & Inspection ROV
Platform & Pipeline Inspections | Construction & Decommissioning

EDGE DVR LITE EDGE DVR EDGE DVR PRO

DIGITAL EDGE SUBSEA

T +44 (0)1229 206456 | www.digitaledgesubsea.com

Game changing installation of Mycronic equipment

European Circuits Limited is a privately owned company based in Glasgow. Established in 1999, ECL is one of the few companies in the UK that genuinely offers PCB fabrication and assembly from a single location as well as services such as cable assembly, product build and test.

In November 2022, European Circuits installed a Mycronic YPro Series MY700 Jet Printer and Dispenser and Mycronic MY300LX Pick-and-Place.

Mycronic jet printing technology makes it possible to dispense solder paste for the most challenging circuit boards and components, with micrometer accuracy, maximum speed and perfect quality solder joints.



In addition to the Solder Paste Printer, European Circuits has also invested in a Mycronic MY300LX Pick-and-Place. The MY300 delivers SMT pick-and-place at next

level precision and flexibility in a fast, small and smart format.

Philip Briscoe, Sales Director of European Circuits Limited, commented, "The investment in the Mycronic equipment was described by one customer as a game changer for ECL. It absolutely is and demonstrates our commitment to supplying high quality Printed Circuit Board assemblies produced right here in the UK for a whole range of industries throughout the UK, Europe and beyond."

T +44 (0)141 941 1388
info@european-circuits.co.uk
www.european-circuits.co.uk

Vacuum Cleaners on the production line

Vacuum Cleaners are not just for housekeeping and general maintenance. Quirepace regularly manufacture and supply machines from the BVC range of Industrial Vacuum Cleaners to be incorporated directly in to the process or production line.



The range of BVC Industrial Vacuum Cleaners, as standard, offers a variety of specifications to suit the various applications and requirements found in Industry. Machines in the 'portables' category are available with power ratings from 1-15kW, and fixed installation Central Vacuum Cleaning systems can be specified for very large applications with the potential for many simultaneous points of use.

In many instances, adaptation to integrate with a particular process or production line may be limited to just providing special tools or connection points, with the vacuum cleaner itself remaining as a standard specification. However, Quirepace will also customise the standard range Industrial Vacuum Cleaners to adapt them for particular applications and processes.

One adaptation is to incorporate interfaces to external systems to allow an external PLC or SCADA interface to start and stop the vacuum cleaner according to the industrial process demands. For example, the Ti80 Centurion Industrial Vacuum Cleaner is integrated on to automotive production lines in combination with industrial robots to automate the cleaning of car body shells. The external controls allow the Ti80 unit to be started and stopped to coincide with the progression of the production line.

T 023 9260 3700
sales@quirepace.co.uk
www.quirepace.co.uk

Stronger Bonds make Better Business



In BASA's 40th year of operation, we are still excelling in our mission to remain the umbrella organisation for UK adhesives and sealants manufacturers. Focusing on technical and legislative aspects and on promoting awareness of the industry and technology by providing guidance on technical and compliance issues, we create a variety of networking opportunities for members and provide a huge library of documents on the website. Our SME members are our lifeblood.

BASA is the voice of the adhesives and sealants industry and an information source for manufacturers and suppliers. We lobby on behalf of members and liaise with Government on legislation, keeping Members well informed of UK, EU and International proposals and initiatives.

With the growing concerns around the environment and using sustainable products and raw materials, BASA is dedicated to helping its members minimise harmful chemical usage and educate the public on the industry's drive for safer products. BASA members work hard to formulate innovative products that positively contribute to the sustainability agenda whilst maintaining performance and durability.

BASA hopes to continue to reach more potential members, looking at ways to support its manufacturers post Brexit and help them to navigate potential new legislation and trade rules.

Contact: Lorna Williams
T +44 (0)330 22 33 290
secretary@basa.uk.com
www.basa.uk.com
[@BASA_updates](https://twitter.com/BASA_updates)



Pillarhouse INTERNATIONAL

World Leaders in Selective Soldering

PILOT

Entry-level, benchtop, single point selective soldering system



JADE MKII

Elementary, flexible, single point selective soldering system



ORISSA FUSION

High speed, in-line, multi-platform selective soldering system



ORISSA SYNCHRODEX PRO

Enhanced, flexible, in-line, modular selective soldering system



Pillarhouse International Ltd.
Rodney Way, Widford, Chelmsford, Essex CM1 3BY UK
Pillarhouse USA, Inc.
201 Lively Blvd, Elk Grove Village, IL 60007 USA
Pillarhouse (Suzhou) Soldering Systems Co., Ltd.
105 Weixi Road, Suzhou Industrial Park, China 215127

www.pillarhouse.co.uk
Tel: +44 (0) 1245 491333 Email: sales@pillarhouse.co.uk
www.pillarhouseusa.com
Tel: +1 847 593 9080 Email: sales@pillarhouseusa.com
www.pillarhouse.cn
Tel: +86 512 6586 0460 Email: sales@pillarhouse.cn

UNISIG's approach to automating surgical instrument manufacturing

As surgical instrument manufacturers pursue greater throughput while facing increased labour costs, automating the medical instrument manufacturing process has become a necessity. However, integrating automation into the gundrilling process for drilling deep holes in extremely precise surgical instruments in lights-out operation is a major engineering challenge requiring more than simply pairing a robot with a deep-hole drilling machine.

The right machine, tools and process must all come together to create small holes with extreme precision in difficult-to-machine materials such as titanium and surgical stainless steel. More importantly, the entire system must flow from a unified concept where the whole is greater than the sum of its parts. To meet these challenges, UNISIG developed its UNE6-2i-750-CR dual independent spindle gundrilling machine. The UNE6-2i is capable of gundrilling hole diameters ranging from 0.8-6mm in part lengths measuring up to 30 inches with depth-to-diameter ratios from 20:1 to more than 100:1. The machine has a maximum combined drilling speed of 28,000rpm and a 3,000psi (207 bar) programmable flow-based coolant system with dedicated pumps for each spindle to ensure precise coolant pressure control.

Automating hundreds of cycles of precision manufacturing, however, is not possible unless the overall operation is considered from the outset. Surgical instrument manufacturing is a sequential process: parts must be loaded into the machine in a particular way for specific operations that happen in a specific order.

Workpiece length, shape and configuration determine where it is gripped by the robot when loaded into a machine, moved from spindle to spindle for drilling, residual cutting fluid removed, and returned to the pallet. Where a part is gripped impacts where it is clamped for drilling to ensure accuracy. Every variable along the process chain must be considered and accounted for, and the calculus is detailed and complicated.



Then there are unique customer needs and requirements. The equipment and process must accommodate a variety of part families and hundreds of parts to increase runtime and efficiency. Operators must be able to change over part types and programming without calling in an automation specialist, and the entire process must be controlled from a central interface. Add to the mix that everything must be packaged in as small a footprint as possible, and the scope of the engineering challenge comes into focus.

UNISIG's approach to solving these problems, however, results in targeted automation that enhances the existing benefits of gundrilling, ensuring a solid foundation for reliable process-wide automation.

At its core, the automated UNE6-2i is a purpose-built machine with automation embedded in its design, not added as an afterthought. Flexibility and adaptability are maximised by a harmonious, interdependent mechanical, software & operational planning scheme.

To meet size constraints, a 6-axis robot was embedded in the machine with a pallet system on the backside of the machine, allowing easy operator access from the front to setup the machine without compromising ergonomics. The configuration enables quick setup changes between prototype and proving operations and full production runs.

The robot automatically repositions the workpiece from the front of the first spindle into the rear of the second spindle without operator input. The process of drilling a part from both ends in a single-piece flow is unique to UNISIG. Workpieces with enlarged features on one side are loaded from the rear of the collet, solving a common problem in gundrilling medical surgical instruments with full automation.

Control of the UNE6-2i and a computer are consolidated into the Human Machine Interface (HMI),

a menu-driven touch screen system for easy, intuitive operation. Training and operator engagement with the system is significantly reduced due to user-friendly UNISIG controller menus and prompts.

UNISIG's comprehensive and integrated approach to automating medical part manufacturing is a vision that sets it apart in the industry. It's more than drilling the

impossible hole. It's a commitment to understanding and to the research that drives continuous improvement and innovation for automated part production at its full potential.

Further information on all machines and the complete UNISIG machine programme is available at: www.unisig.com or follow the company on LinkedIn



and Twitter (@UNISIG). You will also meet us at the EMO 2023 show in Hannover, Germany, from 18-23 September.

UNISIG.COM





**UNISIG TAKES YOUR
GUNDRILLING
PRODUCTION FURTHER**

**Gundrilling and BTA deep hole drilling
for highly productive shops.**

Whether your shop needs on-center or off-center holes, specialized job shop work or fully automated production, UNISIG has a deep hole drilling solution with the accuracy and performance you need.

Take your shop's production further - learn more at UNISIG.COM.

Machines • Tools • Automation

UNISIG machines, engineered and manufactured in the USA





The new alternatives in power conversion

Power conversion is commonly achieved through phase-angle controllers, transformers and power supplies. But these solutions can either damage heaters, or take up large amounts of space or make it incredibly hard to measure and control the power flow. Watlow's power conversion technology solves these issues by providing the ability to bring voltage up or down smoothly without having to introduce a bulky power supply. Watlow temperature controllers, such as POWERGLIDE®, are capable of modulating the amplitude of the output voltage, allowing the voltage to step down from 208 volts to as low as 20 volts.

Lowering the voltage in this way is a great way to drive low-impedance heaters. It can reduce the power distribution rating with smaller fuses and wires, which saves money

and space. It can also protect ceramic heaters from breaking. Watlow's power conversion technology also achieves high power quality without the high cost and added space of a DC power supply.

Power conversion is an essential element of many heating applications. Yet most current power conversion technology is not well suited to cases where heaters are fragile, have ceramic components, or have to ensure safe operation across the globe. No longer do devices have to be engineered around power quality issues. Instead, smooth, stable power changes are possible across a huge variety of outputs, and noise is reduced drastically.

Contact
www.watlow.com



Trim down your waste with Rotech at FoodEx 2023



With sustainability and the rising cost-of-living being the hot topics of this year's show, Rotech will highlight ways in which their innovative solutions can help food and drink manufacturers reduce their waste, while also shedding excess pounds spent on their coding and marking processes.

Targeting troublesome areas with TIJ
The waste produced by coding and marking technologies, and the recyclability of such waste, can vary drastically, and should be a key consideration for manufacturers looking to reduce their environmental impact.

On our stand P141 we will be comparing the waste produced by our favoured technology, thermal inkjet (TIJ) against that produced by other technologies commonly seen in food & drink production environments, thermal transfer (TTO) and continuous inkjet (CIJ).

Increase productivity levels with the RF Lite
Manually hand labelling or stamping date and batch codes onto packaging can be a time-consuming, labour-intensive process, one that often results in mislabelled or printed packs that have to be thrown away, a waste of both product and the manufacturers time.

By automating the process with the RF Lite, manufacturers can see productivity levels rise dramatically; the compact system can feed and print up to 400 packs per minute, freeing up skilled workers for other tasks.

Misprinted packs also become a thing of the past. The RF Lite accurately feeds product through to the printer, which triggers at the same point on each pack, producing a quality, clear print each time – a print automatically generated by the printer's intuitive iDesign formatting software.

Shed pounds and aid recyclability by printing direct to the box
Rotech's large area printers allow for information previously carried on a label to be reliably printed directly onto outer cases and boxes at high speed.

As a result, you save costs on consumables, printing, and the need for an application system. With the ability to print a barcode to the required standard, the savings of direct box printing are substantial.

Lastly, due to the adhesives and ink used, labelled boxes can be more difficult to recycle. However, when boxes are directly printed, their composition remains unchanged so they can continue to be widely recycled.

Could Rotech help with your transformation?
Visit stand P141 to talk with any of our experts about how we can work together to reduce your waste while subsequently helping you to save money, without compromising on quality or efficiency.

For any further information on Rotech, or any one of our solutions, visit our website at: www.rotechmachines.com



PM LEGACY™ Panel Mount Controller

The Watlow® PM LEGACY™ series panel mount controller is an industry leading PID controller that allows optimal performance utilizing simple control and menu functionality without complex features.

- Simplified menu
- PID auto-tune
- Standard bus communications
- Touch safe package
- Agency approvals
- Three-year warranty

Powered by Possibility



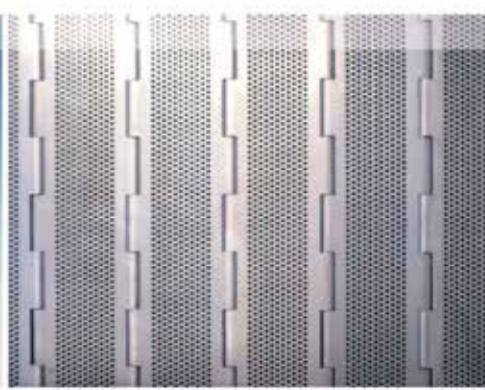
Ideally suited for basic applications or usage levels



Contact your local Watlow representative or visit www.watlow.com to find out more



we make ideas come to life



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

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

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

Complete solutions

With a continued investment in the latest equipment and a network of professional partners we are able to produce prime quality products and solutions – from a simple perforated sheet to the fully formed and coated custom made part.

For more information please contact us tel: 01925 839610 | email: info.uk@rmig.com | www.rmig.com

Cutting

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

Levelling

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

Rolling and forming

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

Aesthetic finishes and protective coating

We can offer powder coating and hot dip galvanizing solutions to meet your specifications.

Game-changing High Speed Eco Pumps demonstrate dilution pump evolution

Quantex™ is synonymous with game-changing liquid dispense solutions. As the premium leading brand for recyclable positive displacement pump technology, the focus has been on saving carbon emissions and sustainable products for some time now. This year sees Quantex showcasing samples of its upcoming exclusive new range of High-Speed Eco-Pumps, which work three times faster than standardised pumps.

Dr Paul Pankhurst, Quantex founder, heralded a new chapter when he invented the first Quantex alternative to the traditional peristaltic pump. Following subsequent meticulous research and development over the years, Quantex brought out a succession of highly successful off-the-shelf recyclable pumps, all with varying flow-rate continuums.

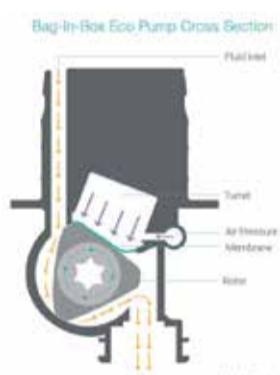
Quantex was acquired by PSG, an operating company of Dover Corporation and joined 13 other specialised pump and flow measurement brands.

Following the highly successful acquisition, Quantex now works from its European headquarters

in Duisburg, western Germany, sharing the state-of-the-art facilities with established PSG brands: Quattroflow, Almatec, and Hydro. The original Quantex UK central London office and dedicated manufacturing plant in High Wycombe, Northwest of London remain fully operational.

From its enterprising, innovative roots to exciting collaborative culture ethos, Quantex has continued to pave the way in recyclable pump technology. The full range of pumps: micro-dosing, low-flow, bag-in-box and high-flow are now followed by numbers signalling the pump's estimated maximum litre flow rate per hour. This semantical re-branding helps customers find the ideal pump quickly and conveniently.

The high-speed/eco-pumps run across the low-flow, bag-in-box and high-flow pump ranges: QX60-HS pump, QX150-HS pump and QX265-HS pump respectively. The eco-pumps can be recycled and come with an additional 12% weight reduction.



The standard and dilution pumps formed a seal through a silicone rubber spring that squeezed the membrane against the rotor of the pump. Some dedicated previous customers were able to successfully recycle these pumps, but it was not the most straight-forward process. The silicone needed separating from the polyolefin through grinding and flotation techniques.

The silicone spring has been completely removed in the new High-Speed Eco-pumps, using air pressure instead, to seal the membrane to the rotor. The empty silicone spring chamber is sealed, the exception being the inlet from the dilution port. A low-cost air pump is connected to the port, applying air pressure to seal simultaneously, as the Eco pump dispenses. There is a small nitrile rubber lipseal, (comprising only 3% of the pump weight) the remaining 97% polyolefin thermoplastic material is fully recyclable.

We caught up with Gillian Harding-Moore, Director of Global Marketing, to find out more, "Our new High-Speed Eco Pumps are an exciting development for 2023. These new pumps ingeniously use air pressure to activate the diaphragm and seal the pumps instead of a silicone spring, making them more easily recycled, and they run at superior rates: almost three times as fast as our standard or high-pressure pumps."

"We are also delighted that, in partnership with sister brand, Quattroflow, Quantex is moving into the Biopharma industry: providing low-shear micro-dosing capacity for cell and gene therapy as well as laboratory and upstream bioprocessing, helping

provide future genetic therapies. It is great to see our pumps supporting in this important research."

Alongside the Biopharma industry, Quantex is looking to collaborate with sister PSG brands in Industrial Cleaning, Agriculture and Retail.

The High-Speed Eco Pumps have already proved to be of popular interest across many sectors and Quantex has already seen a phenomenal doubling of pump production since 2021. The Bag-in-Box pump production

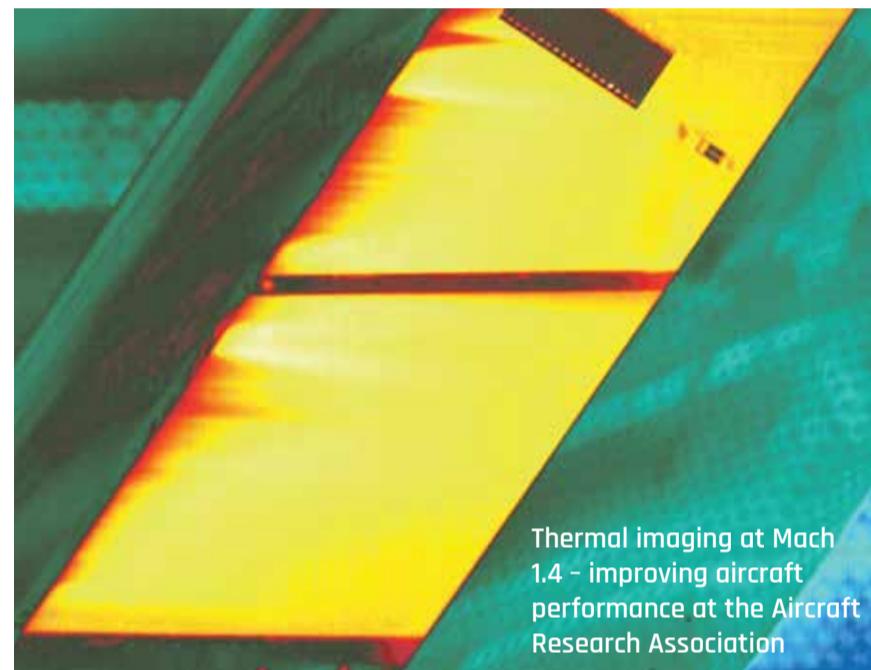
will benefit from an additional automated assembly line and in-house sales forecasters are looking at a further tripling of pump production this year alone.

To find out more about the latest High-Speed Eco Pumps, see the details below:
London Office +44 (0)20 8735 5880
German HQ +49 (2065) 89205-0
quantex-info@PSGDover.com
www.psgdover.com
www.quantex-arc.com



Industrial

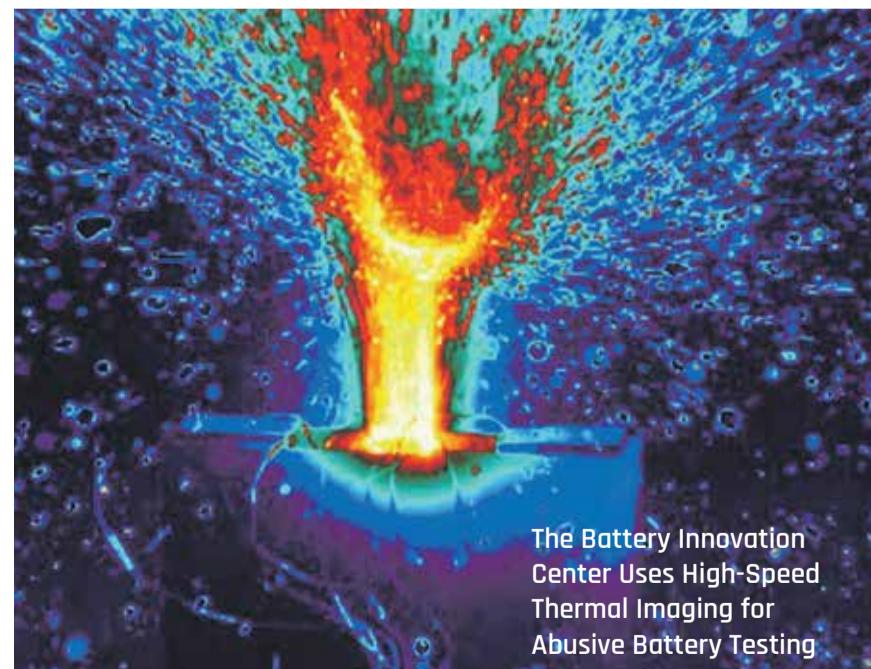
Thermal Vision Research



Thermal imaging at Mach 1.4 - improving aircraft performance at the Aircraft Research Association



Thermal Vision Research have over 10 years' experience in the thermal imaging market. Founded by Matthew Clavey, we supply FLIR's range of specialist IR thermography cameras for the research and development (R&D) sector.



The Battery Innovation Center Uses High-Speed Thermal Imaging for Abusive Battery Testing

Systems for HIRE per day or SUBSCRIBE - A smart new way to start your Infrared journey from Thermal Vision Research

0333 200 4667
info@thermalvisionresearch.co.uk
www.thermalvisionresearch.co.uk

Surface Technology

CURTISS - WRIGHT

01635 279621
eurosales@cwst.com
www.cwst.co.uk

- Controlled Shot Peening
- Laser Shock Peening
- Thermal Spray Coatings
- Dry Film Lubricants
- Organic and Inorganic Coatings
- Parylene Ultra-thin Conformal Coatings
- Superfinishing
- On-site Processing
- Material Testing and Analysis
- NADCAP, ISO 9001:2008, ISO 13485, AS9100 Rev D.

Offshore Digital Systems

DIGITAL VIDEO RECORDING & INSPECTION SYSTEMS

SD HD 4K

Diving Workclass & Inspection ROV Platform & Pipeline Inspections Construction & Decommissioning

DIGITAL EDGE SUBSEA www.digitaledgesubsea.com

Adhesive Specialists

AdCo
Adhesive Specialists

AdCo's HD 250 NV is a true standout among industrial-grade hot melt glue guns

Patented Dripless Nozzle

01428 751755
enquiries@adco.co.uk

Auctions

CHARTER AUCTIONS

ONLINE MANUFACTURING AUCTIONS

BUY OR SELL YOUR ASSETS AT:
WWW.CHARTERAUCTIONS.CO.UK

Ultrasonic Cleaning

Hilsonic

Units 1-4, Cashel Road, Wirral, Merseyside
Tel: 0151 639 6020 Fax: 0151 334 7407
Email: sales@hilsonic.co.uk
Web: www.hilsonic.co.uk

Humidity Control

HUMIDITY SOLUTIONS
Independently better

Boost products and productivity with reliable humidity control

01372 571200
www.humiditysolutions.co.uk

Park & Leisure Homes

KINGSTON
park & leisure homes

A New Generation Of Park & Leisure Homes
01482 835835 | www.kingstonplh.com

Material Handling

YOUR MATERIAL HANDLING PARTNER.

THE RIGHT SOLUTION FOR EVERY APPLICATION.

DFL CLARK
DAVISON FORKLIFT LTD
01902 420123 / 01952 915060
sales@davison-forklift.co.uk
www.davison-forklift.co.uk

Humidity Control

EUROPEAN SPRINGS & PRESSINGS

Complete service support from design to manufacture

We offer full design and production of standard and bespoke metal components in a comprehensive range of materials. Our products range from tension, extension, compression, torsion and gas springs, to wire forms and metal pressings.

For all enquiries please call us on: +44 20 8863 1800 or email us at: sales@euroeuropressings.com

Threaded Inserts

The Insert Company UK Ltd
Specialist in Threaded Inserts for Wood, Plastic & Metal

Zinc Alloy Inserts
Steel Inserts
Brass Threaded Inserts
Furniture Connectors

sales@theinsertcompany.com
www.theinsertcompany.com

Hinges

GOLD & WASSALL
EST. 1790

Quality hinges for over 200 years

01827 63391
sales@goldwassallhinges.co.uk

Electric Vehicles

BRADSHAW
ELECTRIC • VEHICLES

TOW TRACTORS
LOAD CARRIERS
BESPOKE BUILDS
ROAD VEHICLES
UTILITY VEHICLES
PASSENGER VEHICLES

WWW.BRADSHAWEV.COM

Doors & Shutters

dp DOORS & SHUTTERS LTD 01142 889 464
sales@dpdoorsandshutters.co.uk

- Door Repairs and Callouts
- High Speed Doors
- Steel Personnel Doors
- Roller Shutter Doors
- Sectional Overhead Doors
- Maintenance and Repairs to Dock levellers and Loading Bay Equipment.

www.dpdoorsandshutters.co.uk

Pressure Measurement

ESI
ESI Technology Ltd

01978 262255
sales@esi-tec.com
www.esi-tec.com

Pressure transducers, transmitters and sensors
Silicon-On-Sapphire sensing technology
From vacuum to 5,000 bar solutions
Tested to ISO9001 and MIL-45208 procedures
Outstanding proven performance
Conform to CE requirements
EX, IECEx and DNV GL certified products

THE HOME OF PRESSURE MEASUREMENT

Force Measurement Solutions

Interface
The World Leader in Force Measurement

Load Cell, Torque and Pressure Sensor Specialist

Interface's new Global Standard product Line - The G Series

- Three load cell types load button, mini S-beam & threaded In-Line.
- Capacities ranging from 200 Newtons to 50kN.
- Stainless steel with an environmental protection rating of IP64 or better.

www.interfaceforce.co.uk

Engineering

KINGSTON ENGINEERING
Leading Specialist Manufacturer and Producers of Bespoke Power Screws

100 YEARS EST. 1919

Celebrating One Hundred Years Of Engineering Excellence

Tel: + 44 (0)1482 325676
Kingston Engineering Co. (Hull) Ltd
www.kingston-engineering.co.uk

Broach & Broaching

JFL
Broaches and Broaching Ltd

PROFESSIONAL, RELIABLE SERVICE

JFL has over 40 years personal experience in the business and we pride ourselves in offering you quality products and services with technical support second to none.

All your broach & broaching needs from one source.

Go to www.jflbroaches.co.uk
Call 01908 585103

FRIDGENIUS LIMITED

www.fridgenius.co.uk

Solenoid Valve Operating Magnets

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

enquiries@fridgenius.co.uk
02380 323745

Robotics for Automation

onrobot

Wave goodbye to automation barriers once and for all

Sign up to find out more

north-europe@onrobot.com
www.onrobot.com

Bioreactor Systems

electrolab BIOTECH

A leading manufacturer of bench-top bioreactors

Bioreactor and fermenter systems

With over 30 years' experience designing and building bioreactor systems in the UK, you'll find the partner you can trust to deliver the equipment you need.

www.electrolabtech.co.uk

Supplied by

allpack
A Better Package

Secure Transit Protection

PaintGuard™ is the new and secure way to send your tins and tubs of liquids through the post.

PaintGuard™ is suitable for a wide variety of goods within the decorating sector, including paint, varnishes and oils. PaintGuard™ is available to secure a range of container sizes and is available in single or double-pack carton options.

Manufactured using fully recycled materials and being fully recyclable, our pulp fitment range fits into specially designed cartons that can securely fit multiple sizes of metal tins/plastic tubs, providing functional, affordable transit packaging protection.



Scan to visit the full PaintGuard™ range



Protects against in-transit spills.

100% Recyclable