

# INDUSTRY UPDATE

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## Flexibility through the supply chain



**N**OTE Windsor are a flexible partner, creating value through cost-efficient manufacturing solutions working in partnership with our customers to meet their technology and business needs.

### Collaboration is key

When we think of flexibility we often only think of flexibility of finished goods. However, there are a lot of factors in which the right partner can offer flexibility. From Engineering support to collaboration on inbound logistics through the buffering of component stocks either with your partner or buffered at the supplier through a negotiated agreement. Planning and optimized scheduling of your supply chain will often dictate how flexible you can be with your customers, so getting it right is paramount.

A good manufacturing partner will work with you on the supply chain to minimise the impact or your ability to ship products. However, a great partner will go above and beyond this offering multiple fulfilment options, tailoring a service model to meet your unique business needs.

### Long-term partnerships

The long-term partnerships with customers we build at NOTE, understanding of projects and priorities, consider every element of technical and commercial needs. Key to achieving this is our customer-focused approach, close collaboration and taking a holistic view of the business and market enables us to ensure our customers' inventory and lead-times are kept to an optimal minimum.

If you're interested in speaking to NOTE, please get in touch via the information below.

### Contact

**Andy Thwaites** – UK Business Development Director  
M +44 (0)7766 311419  
[www.note-uk.co.uk](http://www.note-uk.co.uk)

## Practical Aspects of PROFINET, PROFIBUS & IO-Link



**Birmingham 17th November 2021; Strathclyde 24th March 2022**

**T**he agenda has changed slightly to pack in even more useful information such as an update on Advanced Physical Layer and information on how to get Certified PROFIBUS or PROFINET Installer, Designer or Engineer qualifications remotely. Hence these events will be of even greater value to Designers, Production/System Engineers, Instrument Technicians/Engineers and C&I Engineers involved in the design, operation and maintenance of modern automated factories and process plant. This is what we've currently got planned, subject to change:

Topics will include:

- ▼ Industry 4.0 and the Industrial Internet of Things (IIoT)
- ▼ Network gateway technology
- ▼ PROFINET Network Design/Industrial network commissioning and testing
- ▼ PROFIBUS and PROFINET device configuration tools
- ▼ Distance Learning: How to get Certified PROFIBUS or PROFINET Installer, Designer or Engineer qualifications remotely
- ▼ An update on Ethernet – Advanced Physical Layer (APL)

For more information visit <https://uk.profinet.com/>

## Kontron's VX3060-S2 takes 3U OpenVPX™ to next level

**K**ontron, a leading global provider of IoT/Embedded Computing Technology (ECT), commences first deliveries of its high performance VX3060-S2 Blade PC. Based on 11th Gen Intel® Core™ processors, this underscores Kontron's strong partnership with Intel, enabling the company to be first to market with a powerful and versatile space-saving 3U VPX single board PC.

Kontron's VX3060-S2 combines robustness, reliability and 15-year-availability with high performance processing, neural network acceleration and powerful graphics capabilities.

CPU SKUs included with the Kontron VX3060-S2 are quad core units supporting specialized Vector Neural Network Instructions (VNNI) and Doubled Signal Processing performance (AVX512). The Gen12 Gfx graphics engine

ensures maximum performance for computer vision and media processing - twice that of the previous generation. Furthermore, the direct on-chip access to main memory allows exceptional performance from the 96 execution units (EUs), especially when compared to traditional discrete graphics silicon solutions featuring many more EUs.

Multiple extensions allow developers to more easily address a wide range of demanding mission critical applications. Specific power and temperature monitoring sensors make the VX3060-S2 qualified for safety critical applications. VX3060-S2 can provide Hardware Root of Trust thanks to its TPM module and Kontron SEC-Line elements. For ease of access, the VX3060-S2 pin assignment is compatible with VITA65 OpenVPX Profiles, and supports the SOSA™ standard for expediting avionics certification. Therefore the VX3060 is also able to

bring critical new features to existing systems developed in accordance with these standards.

A rich Linux™ BSP allows instant evaluation and benchmarking. This includes the source code required to support the VX3060-S2 in any Linux distribution, offering developers an unparalleled 'out of the box' experience thanks to CMON-Line, its integrated remotely accessible CBIT service.



For more information, please visit: <https://www.kontron.com/en/products/vx3060-s2/p160535>

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# G&P Group Holdings Ltd – Outstanding in its field

**In this issue of Industry Update, we are proud to announce that our Outstanding Achievement Award is awarded to G&P Group Holdings Ltd, in recognition of its long contribution to maintaining quality in manufacturing industries.**



"Winning this Outstanding Achievement Award is recognition of the high standards that G&P sets itself. It is also further evidence, and a great reflection, of G&P's personnel who provide a first-class level of service to customers on a daily basis," highlighted Geoff Cousins, chairman at G&P.

Established in 1994, Dino Kyriacou joined G&P in 1998 and conducted a management buyout in 2001. As CEO and sole owner he has successfully navigated G&P into a global company providing one of the best in-class quality management solutions comprising of inspection, rectification, technical, engineering services and supply chain capacity analysis. Enabled by its strong technical capabilities and robust management systems, G&P is committed to the development and safety of its people which is the guiding principle that brings its vision into reality.

Experts in providing quality management solutions, its industry leading services are deployed throughout the supply chain and across the whole product life cycle. Its processes are revealed through its extensive expertise in the automotive, off-highway, and aerospace sectors and are also deployed helping OEMs and suppliers maintain quality standards. "We also support OEMs and manufacturers in the marine, defence and household goods sectors. Our strength is in our team, we aim to work with integrity, accountability, confidentiality and flexibility," said Geoff.

Among its many achievements is its innovative Quality Excellence Model, with QTrak at its heart, that is a key asset for the company and industries involved. The fully paperless QTrak system gives customers a competitive advantage as it provides real-time analysis and identification of quality issues, allowing problematic supply sources to be investigated without delay, parts contained and corrective action to be deployed to prevent further waste being produced. As a proprietary software system, QTrak has been developed by G&P and its benefits include instant access to real time data and results, image capture, and the ability to operate across multiple sites.

The unsung hero to the manufacturing industry, G&P has always maintained a strong customer focus. Indeed, even throughout such unprecedented times during COVID-19,

G&P managed to operate in some capacity. "Given the circumstances, G&P reworked 27,052,781 parts in 2020 to OEM standard, for its customers, a 73% increase compared to the previous four-year average. G&P was an invaluable support to its customers as working practices were disrupted, through social distancing, travel restrictions, interruptions to supply chains, remote working and different shift patterns," stated Geoff.

Geoff joined G&P in January 2019. Among his extensive experience in the automotive industry fostering collaborations and relationships between British and other European automotive businesses, Geoff has a history of transforming work practices and business models. Former managing director of Jaguar UK, Geoff and Dino are key to G&P's restructure helping lay the foundations for an ambitious growth strategy.



"Quality is becoming more important in the manufacturing industry. If the quality is wrong, it costs a lot of money to get right. It's an inconvenience to customers if you give bad quality, that is why at G&P we work to improve the quality of the product by targeting the source of production rather than the end. Customer perception is the hardest perception to change.

"It must not be forgotten, that customers' perceptions are formed, hardened and fixed by their experience, whether it is good or bad. If reputational damage is caused then it is incredibly hard to fix.



G&P has been the recipient of some of the most highly respected and prestigious awards for its innovation in the creation of its products. G&P was awarded the UK's highest accolade for business success, winning a Queen's Award for Enterprise.

Other awards and accolades include winning bronze at the Green Apple Awards for Environmental Best Practice in the automotive category, being named in the London Stock Exchange report '1,000 Companies to Inspire Britain' for four consecutive years, together with the Sunday Times HSBC International Track 200, which ranks Britain's mid-market private companies with the fastest growing international growth, and the Sunday Times Fast Track 100, which ranks Britain's private companies with the fastest growing sales.

G&P's class leading processes have been recognised by manufacturers as being fundamental in increasing efficiency, reducing waste and protecting customer reputations. The outstanding partnership between Geoff and Dino shines a spotlight on the company as it receives yet another industry recognised award that can be added to its portfolio.

G&P's ability to create quality, infuse integrity and instal confidentiality into all of its working practices boasts the glowing rapport between its operation and its customers. Granting access to a vast range of highly skilled personnel, supplier development engineers, quality inspectors and vehicle technicians allows G&P's customers the flexibility to outsource production requirements whilst meeting quality standards and a stable production schedule.

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"With this in mind, we want to cast our vast range of expertise and skills that have enabled us to make dynamic changes in the automotive industry and diversify into other sectors," said Geoff.

Following the restructure of the company, Geoff and Dino have created a bulletproof partnership that is so far proving more than successful as it looks to grow. "G&P is now entering an ambitious growth phase, developing the breadth of core sectors and expansion into adjacent services, while also promoting the added value of higher skilled technicians and engineers," stated Geoff.

Even prior to COVID-19, G&P recognised the long-term need to diversify into more manufacturing sectors. G&P is building a strategy to ensure the transferability of its services into other sectors such as supplier management, quality audits, inspection, containment and rework, finished product acceptance, measurement and scanning services is as successful as its current working processes.

"We have good experience in aerospace, for instance one of our large contracts is with a turbine engine supplier. However, we have vision to further grow in other sectors such as household goods, where we have previous experience," said Geoff.



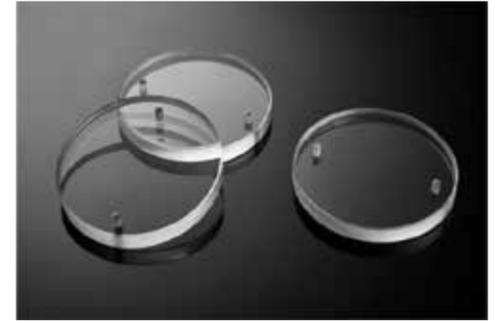
## UK based precision optics and optical material suppliers



spherical lenses, mirrors, Beamsplitters, prisms, windows, domes, diffusers, filters, and reticles. Global Optics (UK) Ltd welcomes new and challenging enquiries for new business opportunities.

For more information either email or call Global Optics (UK) Ltd.

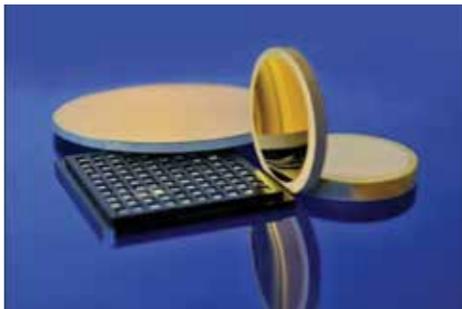
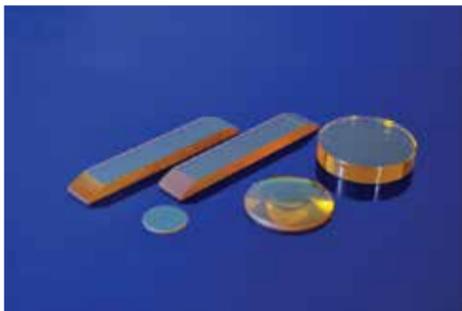
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**UK based Global Optics (UK) Ltd., established in 1995 specialises in the supply of custom manufactured precision optical components and materials for use in the UV, Visible and Infrared spectrum.**

The basic product range consists of optically coated and uncoated Lenses, Windows, Prisms, Filters and Optically Coated Mirrors all produced to customers own particular specifications from small quantities for research and development projects to small production quantities to many thousands of pieces for large volume production.

Global Optics (UK) Ltd., serves many different industries working in the UV, Visible and Infrared, ranging from medical, analytical, environmental, defence, robotic, underwater, gas, sensors, scanners, detectors, lasers, thermal imaging, camera systems and security to name but a few.



All components are fully inspected and tested using an extensive range of metrology instruments. Global Optics (UK) Ltd have 2 Perkin Elmer Spectrophotometers for measuring the optical transmission, Interferometer for measuring flatness, Trioptics Prism Master for measuring wedges and angles, Trioptics Spherometer for measuring radii, CHRcodile 2 DPS dual-channel sensor Precitec Optronik instrument stand-alone solution that enables non-contact thickness measurement, Keyence IM6000 and a Keyence IM8000 Non-Contact instrument for dimensional measurements.

The inspection and test equipment allows Global Optics (UK) Ltd., to track and trace all components using individual batch numbers so that the company complies with its ISO 9001:2015 Quality Management System

The product lines are nonspecific and they cover such a large varied range of shapes and sizes in the form of aspherical lenses, cylindrical lenses,



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### Forecyte Online Condition Monitoring Powered by Nidec

Forecyte is the remote vibration/temperature monitoring system manufactured by NIDEC and promoted by GES as part of our machine condition monitoring programme, used by many customers throughout UK & Ireland. The Forecyte system allows continuous vibration monitoring of any equipment over an unlimited period of time and at recording intervals determined by the user.



### GES Group's 5 Pillars of Expertise



GES Group, established in 1972 as Grants Electrical Services (NI) Ltd, the company has grown and developed into GES Group, a leading Electrical and Mechanical Engineering business, now serving customers throughout Ireland, the UK and Europe. Currently employing over 80 staff, including many professionally trained and accredited Engineers, we respond quickly to industry's ever-changing demands and needs, while offering geographic coverage to many of our customers. Traditionally AC/DC motor rewind and re-manufacture specialists, we have developed our portfolio as a market leader to now provide an extensive range of technically advanced products and services.

### Nidec (Leroy Somer) Electric Motors stocked in Mallusk and Newbridge (IRL)

As of the 4th January 2021, GES Group became the authorised Distributor for Nidec (Leroy-Somer) Motors Ireland. This is a very exciting time for both GES Group and Nidec as we have worked together in partnership in Northern Ireland for several years, and by expanding the distributorship to Southern Ireland, our partnership will create a more comprehensive infrastructure with enhanced experience and expertise and will provide our customers with a first class customer service experience.

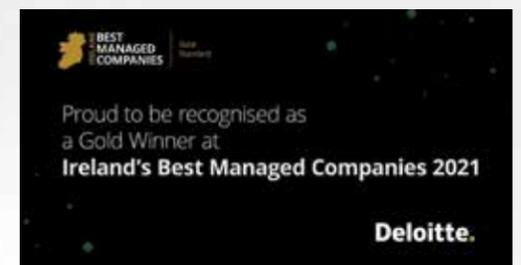


### Wind Turbine generator re-design

The Northern Ireland wind fleet contains 1,236 sites of 5,000kW in capacity or less, with a total capacity of 218MW. A significant number of these are around 250kW (798 with a total installed capacity of 214MW). Deploying larger capacity turbines with a reduced output capability has become extremely viable as the machines can produce the maximum 250kw at lower wind speeds making for a potentially more efficient machine. GES has been working closely with the industry in developing the generator winding design to accommodate this. Recently GES has completed machine winding conversions which have been installed at several sites across Northern Ireland and in Europe. The feedback from customers and service providers has been excellent and the machines' performance has met all expectations. With several more conversions in the pipeline, GES looks forward to further orders and developing our working relationship with others in this industry.

### Company receives award for Gold

GES Group has been named as one of Ireland's Best Managed Companies. The awards programme is led by Deloitte Ireland, in association with Bank of Ireland. The company, which demonstrated superior business performance for 5th year, was recognised at a virtual awards ceremony on Wednesday, 8 September.



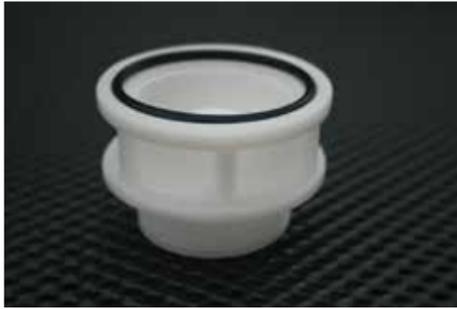
Commenting on the award, David Moore, CEO, GES Group said: "It is my role as Chief Executive to drive vision and ambition with professional leadership throughout the entire company, with clarity of governance and compliance, and through the trust and ownership of my key management team. Being brought up in a business and engineering childhood, I quickly accepted and adapted the desire for training and development in a future career ahead. Ever more so today is Management and Leadership training a key driver of our competitiveness and success and it is important that that message travels wide across the whole company for continued development. I have witnessed substantial progress across the company that reinforce the investment that we have jointly participated, in professional development where individuals and their depts. perform better, and where all participants embrace challenges present by the ever-changing market and economy. There is no question that the vision, good leadership and management practices that we have fully embraced have a truly significant impact on our organisational performance, both now and for the future. Thanks to all the team for their hard work and well-earned success in gaining the prestigious Deloitte All-Ireland GOLD, Best Managed Companies Award".

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[www.ges-group.com](http://www.ges-group.com)

# Environmentally friendly living – simple solutions to reduce water consumption

**A**s our climate changes, our population increases and our lifestyles become more leisure orientated, there is an ever-increasing demand for water.



Although the financial cost of supplying and cleaning water is relatively low, to some householders it is still a significant expenditure. The environmental impact is considerable, up to 40gm of carbon for each 1m<sup>3</sup>, whether that's making it ready for consumption or to return it to the environment.

The Department of the Environment have recognized that whilst the Water Companies have a responsibility to reduce leakage, the general public will have to develop a greater awareness of the value of this limited resource. A twin track approach of reducing leakage and demand management has been recognized as the only viable option.

#### Water Meters – supporting behavioural change

The national average consumption is 141 litres of water per day, which needs to be reduced by around one third. On average people reduce consumption by around 33 litres per day if on a water meter – a long way towards the target.

Many properties have architectural or water supply structures that make traditional metering options impractical. Groundbreaker is an insulated, surface mounted enclosure for a secure water management system and smart water meter. This point of entry location makes it the perfect solution for installation in existing properties with shared supply or challenging architecture means. Its location on the building also means no street furniture or liability in the highway.

The advantage of the surface mounted system is joint free connection. Compliance with no joint policies has been shown to contribute to minimising leakage, in particular customer side leakage, which can cause issues to both the landlord and water provider. In addition, the surface location is ideal for future smart metering due to the stronger communications signal strength relative to underground meter installation.

#### Controlled flow - unconscious consumption reduction

Our water companies are regulated to provide a minimum level of water, but in many areas due to network structure and gravity fed systems supply is much greater. So run a hose for five minutes at the bottom of the hill, and your lawn will be greener than the gardener that does the same at the top. These 'time controlled' uses could be standardised down if all households received the same acceptable, 'minimum' supply. It's estimated that this simple measure can reduce household usage by 2-3%.

Groundbreaker's NRv2 Check Valve system can help modulate the level of flow entering customer premises – regardless of network pressure, meaning a reduction in the level of water used by customers when 'variable use' appliances like showers, taps, or hosepipes. As the flow of water into the premises is limited, then the amount used by the customer is also limited – but without providing a degradation of service, and more importantly not requiring any intervention or behavioural change on the part of the customer, leading to 'natural' reduction in per capital consumption.



The NRv2 can be easily and simply retrofitted to any meter installation, allowing water demand management with little or no impact on consumers and at minimal cost.

#### In partnership with water providers

Water companies are keen to work with developers to provide low consumption options, and in some cases can provide discounted infrastructure charges for new developments

demonstrating significant water conservation interventions.

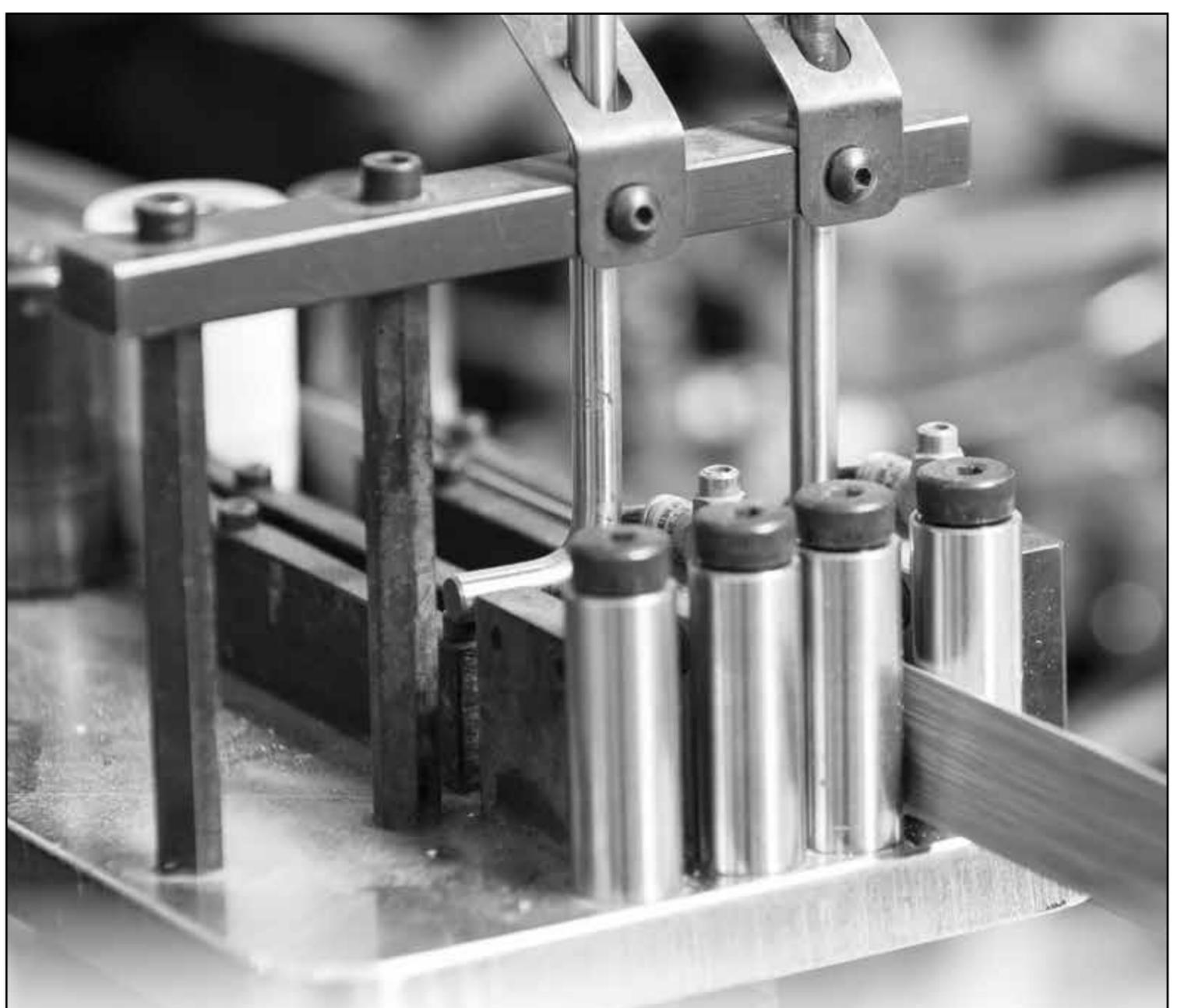
Steve Leigh FIWater, Managing Director  
Richard Leigh B.Eng., C.Eng., MICE, Business Development Manager

Groundbreaker Systems won the HBF's 'Utility of the Year' in 2018.

[www.groundbreaker.co.uk](http://www.groundbreaker.co.uk)

Full instruction including training videos of surface mounted meter housings can be found at [www.groundbreaker.co.uk](http://www.groundbreaker.co.uk)

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# Leaders in on-site hazard control and protection solutions

**In this issue of Industry Update, we have selected RVT Group as our On-Site Hazard Control Company of the Month.**



RVT Group is a specialist hire company, offering solutions for; noise control, dust control, fume control, climate control, ventilation, monitoring, confined space and water treatment.

"RVT Group is not your average hire company; it is our mission to protect all those on site and nearby; as such, we work with our customers to understand the full scope of activities on site, before recommending a fully compliant health hazard control solution," added Tim Dupont, Director.

Noise, dust and fumes can be difficult to manage when conducting maintenance work in a live industrial facility. It is therefore imperative to ensure that there is a plan in place to adequately protect engineers, factory workers and any sensitive equipment during the maintenance process.

RVT Group works with industrial maintenance teams to supply fully compliant temporary LEV solutions. "Quite often, we eliminate dust and fume migration by containing the work area and using high airflow extraction units to create a negative pressure environment, however we

can also create temporary positive pressure ventilation systems. Our solutions ensure that sensitive activities can continue in the facility, while protecting both industrial workers and the maintenance team," added Tim.

Some of the company's most successful kits for industrial applications includes: the DustMaster Pro, Wandafilta Pro, Welding fume filter and its new addition; Clearblast 1000, an industrial sized centralised vacuum system, ideal for multiple points of dust or fume extraction.

With an extensive amount of experience spanning over 25 years', RVT Group has access to the broadest range of specialist equipment and is perfectly positioned to support



a diverse range of sectors and industries.

By choosing to work with RVT Group, you are choosing to work with a sustainable and reliable supply chain partner, who will deliver superior equipment, exceptional expertise and outstanding service. RVT Group will also only recommend solutions that are effective; ensuring projects remain on track and within budget.



Furthermore, the company also hosts free best practice seminars and CPD sessions, to ensure workers are educated about respiratory risks and engineering controls they can use to protect themselves. RVT Group works in partnership with organisations such as the 'Health in Construction Leadership Group' to promote positive changes.

RVT Group has built a resounding reputation for protecting people's health on site, but the company is also passionate about protecting the environment. "We began our journey in 2010 by achieving ISO 14001, and we have made a considerable number of changes to reduce our impact on the environment, but we know there is still more to be done. We have engaged an external consultant to conduct a carbon footprint assessment, and we are now in the process of creating a plan to further reduce our scope 1, 2 and 3 emissions. Our goal is to be carbon neutral by 2024 and to achieve net zero by 2029," Tim added.



As the company looks ahead, RVT Group will be adding more environmental solutions to its fleet and plans to continue to invest in research and development, to improve the efficiency of its existing products and provide new innovative and sustainable solutions. Some of these latest innovations include: Envirohub Water Management Solutions, HVO fuel for our heaters, Hybrid Lighting, and there is much more to come!

**For more information, please see below.**

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## Handling, Storage & Logistics Update



### STORAGE PROBLEMS?

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# UNISIG – Time to rethink sharpening your gundrills



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

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

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

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

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

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

The main risk of performing resharpening operations in-house is poorly sharpened gundrills. Without the correct tip geometry, gundrills do everything worse: size control, roundness, cylindricity, finish, chip control, straightness and depth all negatively impact workpiece quality and



UNISIG

result in significantly diminished tool life. This will cause operators to reduce feedrates or change out tools more frequently to achieve the necessary tolerances and out of fear of catastrophic tool failure.

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

A basic, high-precision manual tool grinder is used as a platform for these systems, though the length of some gundrills necessitates a reinforced table for sufficient accuracy. Choosing a fixture can be more complicated, as gundrills can be ground in two

different ways. Sweep grinding leaves behind a gradual transition between elements of the tip's geometry, while facet grinding creates distinct geometry. UNISIG typically recommends facet grinding, because the slight increase in tip strength produced by a sweep grind is outweighed by the repeatability and greater ease of inspection offered by facet grinds.

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

optimisation. Process optimization capability is the real added value conferred by performing gundrill resharpening in house. Frequent inspection allows for the maximisation of tool life.

Shops become familiar with the wear patterns created by a given application and may find they are replacing gundrills too often. If a gundrill tip has even wear across its entire cutting edge, it could easily have many hundreds of inches of life left, something that will only become apparent with repeated inspections.

In-house gundrill resharpening also ensures that shops can obtain the best tip geometry for their given applications.

Whether it is uneven or unexpected wear, or the sudden appearance of chips in the cutting edge, once a shop identifies an irregularity, they can then adjust speeds and feeds to optimise the process.

The inspection equipment even makes working with tooling OEMs easier, since shops can send them a measurement set and picture of a tool when asking for advice on how to improve the geometry.

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

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# UNISIG

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# UNISIG

DEEP HOLE DRILLING SYSTEMS

# Use of pulsed fibre lasers for surface cleaning, texturing, and functionalisation

**N**eedham Laser Technologies, a subsidiary of The Needham Group Ltd, is a leading manufacturer of industrial laser systems, with decades of experience in the development and manufacturing of laser marking solutions. A family-run business based in Whitchurch, Shropshire, Needham Laser has embraced the advances in power, efficiency, reliability and flexibility of pulsed fibre laser systems over the last 20 years which has provided a cost-effective replacement for traditional surface preparation methods and has enabled the production of surfaces previously unachievable.

Needham Laser's flagship range of laser systems, the N-Lase series, can be found across the UK with a variety of customers, including engineers, knife makers, jewellers, manufacturers and many more.

Needham Laser's team of friendly customer service representatives and network of nationwide engineers are always on-hand to support customers. While many of its customers are investing in laser systems as a solution to their engraving/marketing needs, some are also embracing capacity to efficiently and safely clean surfaces. Laser cleaning is the process by which contaminants, debris, or impurities are

removed from the surface of a material by using laser irradiation. This is a low-cost and environmentally friendly laser application technique. But how does it all work? S

urface colouration and creating a thin hardened skin can be achieved by using the laser to heat the surface to a temperature below its boiling point, commonly using a Continuous Wave (CW) laser but the majority of laser surface modifications are the result of using a pulsed laser to either melt or vapourise the surface of the material.



There are numerous reasons why you may want to modify the surface of a material. Examples include: cleaning the surface prior to another process such as welding, braising soldering or coating; cleaning a surface after another process which has heated it and caused oxide formation or contaminated it with by-products of the process; increasing the surface area of the part, so increasing its reactive surface area; increasing friction between two parts; decreasing friction between two surfaces; re-activating the surface prior to another process; creating or removing a pattern on the surface; roughing a surface to allow a better keying of coating.

### Surfacing cleaning

The most common industrial use of laser cleaning is rust removal from steel parts prior to painting or welding. Rust is friable oxide of iron that forms naturally on the surface of iron-based alloys when they are exposed to oxygen and water. Rust also corrodes the parent metal and can cause pitting and penetration into the metal of depths greater than 250 µm. Rust can form rapidly and must be removed to ensure good paint adherence and allow joining processes to be conducted. Pulsed fibre laser systems, such as the N-Lase series, offer a cost effective, environmentally friendly method of rust removal and surface preparation.

### Wire/busbar stripping

Removing insulation lacquer from copper conductor is a common but difficult process by conventional processes. The insulator can be PAI, PI, PEEK or similar highly resistant materials which adhere strongly to the conductor. On larger conductors, such as hairpins, the insulator must be manually scraped from the surface or machined away which is an awkward and time-consuming process. On ultra-fine transformer wires, such as shown here, it is not possible to perform mechanical scraping or machining without breaking the wire so chemical stripping using hot caustic soda solution is required which is hazardous to health and the environment.

### Rubber mould tool cleaning

Mould tools for rubber, injection moulding plastics and GRP require regular cleaning to prevent the part sticking in the mould and to ensure consistent part geometry. This is sometimes done manually using scraping tools on larger parts but must be done using chemical solvents on smaller and more complicated tools which have health and environmental concerns. Laser cleaning provides a rapid, cost-effective technique to clean the mould without damaging the tools and without the use of any chemicals. The laser required for rubber mould tools is a cost-efficient lower power pulse fibre laser.

### Selective laser paint and powder coat removal

Removing the paint from metal and plastic substrates is often required for both decorative and functional purposes. Information and logos can be placed onto pre-painted panels and electrical contact with panels can be made to allow the panel to be earthed. The texture and colour of the bare material can then be modified as required to produce the desired effect. Layers of different colours can also be applied to both metals and plastics, using the laser to selectively remove one or more of the layers to provide colour details as required.

If you would like to learn more about how a Needham's N-Lase laser systems could provide an efficient and safe surface cleaning solution for you or your business please get in touch and Needham would be more than happy to assist.

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## Sewage treatment specialists



Allerton Construction Limited was established in 1974 by Jon Allerton. What started out as a company originally concerned with draining farmers' fields, in the late 1980s, turned its attention to work in off mains drainage. Fast forward to 2019, Jason Bradley and Jon Allerton formed Allerton Bradley to ensure the continuation of the company for another 40 years.

Allerton Bradley cover sales, servicing, commissioning, and repairs of all types of septic tanks, sewage treatment plants, sewage pump stations and soakaways. British Water is a dynamic trade association with a varied membership of companies covering all sectors of water and wastewater industry. Its members design, build, operate, maintain and provide critical solutions, technologies and research for water and wastewater assets at home and internationally. Working across the East Midlands and beyond, Allerton Bradley has a dedicated and experienced workforce that are trained with British Water to ensure they are in the best position to properly assess and correct a situation.

Allerton Bradley offer an extensive sewage treatment plant servicing contract and maintenance contract, which is recommended to ensure a long service life for your sewage treatment system. The company provide a full servicing contract and maintenance contract to ensure pumps and blowers are removed, checked and cleaned. All pipework, including valves are checked to ensure they are in good working condition, distributors are stripped down and checked, diaphragms and filters are checked or replaced.

A plethora of servicing and maintenance options are available such as sewage servicing and maintenance, septic tank conversion unit servicing and maintenance and pump station servicing and maintenance.

Allerton Bradley has three sewage treatment systems available: The Diamond Range, Septic Tank Conversion, and Wastewater Sewage Treatment for 70+ people. The Diamond Range is recommended for 6 – 55 people and is designed with innovative features ensuring a reliable and effective means of treating effluent from properties not connected to mains drainage. The Diamond sewage treatment plants are CE marked and have been tested in accordance with EN12566-3 making it fully compliant with UK building regulations. The Diamond 6 is a best seller with 630mm invert level – ideal for new builds and the replacement of existing tanks. Its compact design of the units reduces installation and handling costs compared with other plants and in domestic applications will serve up to six people. There are no odours with the Diamond 6 as it does not require primary settlement tank of sewage where odours normally occur. With a process performance which is guaranteed for the lifetime of the plant, the Diamond 6 is efficient and has a continuous bacterial digestion process meaning the plant will continue to perform. You can have peace of mind, as the simple design, reliable operation and minimal maintenance results in low running costs. Furthermore, the Diamond 6 is great value for money and comes complete with two warning beacons fitted to the all weather, air blower kiosk.

The Allerton ConSept is the ideal solution for your Septic Tank Conversion. It will convert existing septic tank or cesspool into a fully functional sewage treatment system producing a final effluent that can be discharged into a watercourse or soakaway. There are many reasons to use the Allerton ConSept for your Septic Tank Conversion as there are no moving parts inside the tank.

If you're looking for a system to cater to a large amount of people, the WPL HiPAF is based on the Submerged Aerated Filtration process and is ideal for 60 – 20,000 people. The system involves a robust process; consistently complying with discharge permit requirements. With low operation and maintenance costs, it is capable of dealing with variable flows and loads (down to 10% of design loads). Installation costs are low due to its small footprint, and valuable time is saved on site due to the ease of installation.

Allerton Bradley provide a vast range of pump stations for the following areas: sewage, dual sewage, high specification, dirty water, dual dirty water and storm water. Each of these come with certain recommendations of application and use which can be found on the company website.

For more information, please see below:

T 0800 328 5492  
T 01529 305757  
sales@allertonuk.com  
www.allertonuk.com

## Independent electrochemical sensor manufacturer celebrates its 30th anniversary

Sentek started manufacturing conductivity electrodes in Scotland in 1991, before heading south the following year to be located nearer to the universities in Oxford, Cambridge, and London where they could collaborate in research.

Sentek then started to make pH electrodes which would be high in quality but low in price, a successful formula which they continue to follow to present day.

The Sentek range now includes dissolved oxygen and ion selective electrodes specifically created for use in labs and the food and beverage and biotechnology markets.

After 3 decades, Sentek are now the UK's largest electrochemical sensor company with

over 50,000 units produced monthly. They are still supplying instruments to their first customers from 30 years ago, a true testimony to the quality of their products and the reliability of their service.

Founder Kenneth Petrie said, "We have become an established player in the market and over the last 30 years, have acquired the experience and in-depth know-how to ensure our clients reliable and versatile solutions. We have gathered a strong team, who together, deliver the highest standards and services at all times."

Sentek intends to introduce a range of innovative new products for their customers



in the near future as well as launching an all-new, user-friendly website.

Anna Brown  
anna@sentek.co.uk  
www.sentek.co.uk

## New pQA portable quadrupole analyser

Hidden Analytical introduce the new pQA portable quadrupole analyser.

The Hiden pQA portable gas analyser is a versatile mass spectrometer and offered with a range of interchangeable sampling inlets to suit a broad application range.

MIMS inlets are offered for analysis of dissolved species in ground water, fermentation cultures, soil samples, and general applications where analysis of dissolved species in liquid sample is required.

The system is suited to gas analysis applications, where sample volume is small, and for environmental applications where detection of low concentration levels is required. The pQA system has a mass range of 200 amu and sub ppb

detection levels. Extended mass range to 300amu is optional.

The system is supplied in a Pelican® case and can be powered by a 12 V supply for field use, battery and/or solar powered, or a 220 V supply for laboratory use.

The new pQA system is designed to be compact, lightweight and portable extending the applications of high sensitivity, high dynamic range multi gas analysis by mass spectrometry for use in the field, on riverbanks, at sea, or in the laboratory.

For full details on this or any other Hiden Products contact Hiden Analytical at [info@hiden.co.uk](mailto:info@hiden.co.uk) or visit the main website: [www.HidenAnalytical.com](http://www.HidenAnalytical.com).



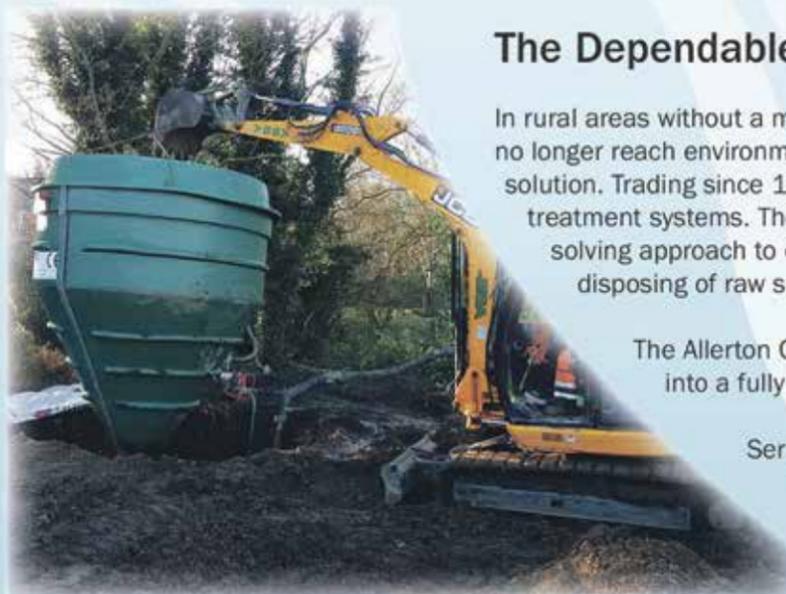
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### The Dependable Choice in Drainage

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

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

Servicing & Maintenance on a wide range of Sewage Treatment Plant and Pump Stations by BRITISH WATER ACCREDITED ENGINEERS.



The Diamond Sewage Treatment range is suitable for either individual homes or small population applications

When Gravity Drainage is not possible choose Allerton Pumping Stations for Sewage or Dirty Water



# See a better future with Presona

**F**ounded in 2008 by Managing Director, Dean Clarke, Presona was created with the main goal of making recycling easier, more efficient and economical for its customers. Providing a turnkey service, Presona design, manufacture, install and provide maintenance for recycling machinery. Striving for innovation, quality and ease of use, Presona focuses on developing products and services that save customers both time and money, whilst also creating efficiencies within their team.

Presona UK is based in the southwest of England with its main head office in Tomelilla, Sweden known as Presona AB. Presona is a global manufacturer of baling equipment with multiple agents and distributors situated across the globe. The UK company is the sole distributor for the UK and Ireland.

Presona maintains a unique ethos and is always looking to exceed customer requirements and expectations by intent and design. Priding itself on setting exceptional standards of service which not only customers benefit from, but employees too. In fact, Presona is dedicated to its employees and want them to enjoy their work and are fully engaged in its direction and culture. This is echoed throughout by sharing the benefits and business success with its team.

Producing its own range of balers, UK built conveyors and waste extraction systems, Presona eradicates the mundane stress often associated with recycling by identifying & resolving pinch points and providing operator training, comprehensive preventative maintenance programmes and 24/7 support.

"We supply our own range of baling equipment capable of producing anything from 40 tonnes of pressure right up to 270 tonnes. Our balers will process a range of recycling materials like paper, cardboard, plastic and some metals, into dense bales for easier and cost-effective shipping.

"Our balers are some of the most energy efficient balers on the market with some savings up to 60% on conventional shear balers. Other benefits include time, team and money, meaning that our balers and equipment will give more time to our customers –



time to focus on other areas of their business. Our equipment will make their team more effective at their job due to less manual intervention from staff on our fully automatic equipment. With the mixture of saving customers time and giving their team other areas to work on, this will in turn save our them on expenses within their business," stated Richard Portas, Customer Accounts and Marketing Manager.

A notable recent development, Presona has recently released a new baler called the MP 270 MH 'Mega'. This baler reduces multi baler sites down to the need for just one baler. It's capable of producing 270 tonnes of pressure giving exceptionally dense bales of cardboard, plastic and paper – and up to 45 tonnes



per hour. "It really lives up to its name as the 'Mega' baler," remarked Richard.

On top of its balers, Presona also designed and manufactured its own conveyors to feed the balers. These are manufactured in its facility in Somerset. "Our conveyor has been designed with the customers frustrations in mind. We listened to issues people were facing with conveyors and things that frustrated them, this then led to the creation of our own conveyor – branded the PreVeya – that's modular construction saves on downtime as there is no need for specialist tools like cutters and welders, it's a simple case of unbolting, replacing, check and leave," said Richard.

Presona has also produced QuickTip™, a trade-marked tipping solution that has been specifically designed to help greatly in reducing safety risks around the conveyor pit section.

Leading logistic firms and the UK's leading retailers have already embraced Presona's QuickTip™, a new conveyor system and smart, time and cost-saving solution for cage tipping.

Designed and developed by Presona's project team, QuickTip™ has been specifically designed for ease of use and provides a simple low cost, low maintenance, reduced labour solution to fit or retrofit to conveyors in distribution, recycling and logistics centres.

Its innovative design enables board and plastic waste products of varying sizes and shapes, to be able to move smoothly from 'cage to conveyor' quickly, using reduced manual intervention by operators



and increases safety by eradicating continued and multiple bending and twisting, thus reducing strains and injuries of operators.

"As well as reducing safety risks around these areas, it also increases time efficiencies on the unloading of waste material onto the conveyor system and reduces the number of staff in these areas too," stated Richard.



Another exceptional new product that Presona developed is SupPressa™, a fire suppression system that is able to be installed into new and existing systems to protect customers baling equipment from the risk of fire outbreak. Lithium ion batteries disposed of in the wrong way are becoming an increasing source of fires and one that has to be managed and mitigated.

Richard explained, "The system is fitted around the higher risk areas of the baler and conveyor, ready to discharge suppressants (foam or powder) at the early stages of fire detection.

"We also offer a range of other services that including tailored service packages, Ad Hoc Service, Operator



Training as well as being the 'only' provider of genuine Presona parts in the UK and Ireland."

In terms of recent developments, many industries have felt the rippling effects of the COVID-19 pandemic. Demonstrating its strength and wealth of integral services for the industry, Presona was able to maintain its operations during the pandemic and continue providing vital solutions and support for its customers working in key industry roles.

"It has certainly been an eye opener for us just like it has for everyone else in the world. Like others, we had to make immediate changes to help mitigate the spread of infection." Richard continued, "We have carried out vast amounts of training to ensure that we are following governments guidelines throughout the pandemic. And thankfully, our team have all wanted to do their part in making this possible for us all to keep on supplying our customers with the service they needed. A big challenge considering that we cover the whole of the UK and Ireland. Ensuring that we kept ourselves and others safe was a challenge, but something we all wanted to work with to keep key workers going."

Able to maintain its services throughout such unprecedented times, Presona has demonstrated its value in the industry and has continued to see consistent growth. As the company moves forward, Presona plans to continue its growth and products offering.

"We plan to expand and grow further for more effective and efficient production of products with one of the most efficient balers in the world helping companies meet their sustainability," added Richard.

Whether you're a recycler, logistics company, manufacturer or retailer, Presona is here to help you improve your recycling performance, saving you time, money and creating effective teams.

T 01278 444527  
www.presona.co.uk

**Presona**  
See a world where recycling just works!

# Working to Raise Industry Standards



## **N.S.A**

Represents the interests of companies associated with the survey, operation, maintenance and renovation of sewers, drains and pipelines.



## **N.S.A**

Acts as a forum for its members to ensure that technological developments go hand in hand with improved operational efficiency.



## **Standards**

Pro-active in setting and maintaining training standards within the industry. Representation on standards and parliamentary committees and regular consultees on a broad range of Legislative and Regulatory matters.

## **Members**

Our members range from sole proprietors to divisions of public companies providing services such as:

- CCTV Inspections
- Sewer Flow Surveys
- Systems Survey and Mapping
- Drain and Sewer Cleaning
- Equipment Manufacture
- Training

For more information visit our website: [www.sewerage.org](http://www.sewerage.org)  
or call Val Gibbens on 020 8330 0123

# The National Sewerage Association

**T**his year, The National Sewerage Association is celebrating 25 years since it was formed in 1996 with the amalgamation of the Association of CCTV Surveyors (established 1980) and Association of Flow Survey Contractors (established 1983). These member companies had laid down a solid foundation in the previous years as key players in the development of model contract documents and industry standards.



The founding Associations had to navigate through the privatisation of the water companies in 1989 and the subsequent changes in contract management as the agencies were rescinded and term contracts awarded. Since The National Sewerage Association's formation, it has had to navigate the changes in the nature of these contracts and the privatisation of private drains and sewers in 2011 for which there is still ongoing issues to resolve in England.

The Association continues to represent the interests of companies associated with the survey, operation, maintenance and renovation of sewers, drains and pipelines. The remit has been extended as specialisms have evolved with improved technology, innovations and stronger health and safety requirements.



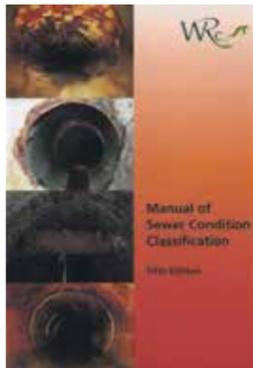
As a forum for its members, the Association ensures that technological developments go hand in hand with improved operational efficiency, thereby meeting the ever-increasing standards of service demanded by today's customers. At the same time, the Association actively pursues the identification of the customer's needs, service standards and performance criteria they require, as well as looking at existing and new market opportunities. Members had been involved in the preparation of National Contract Documents as well as standard operating and reporting systems. Furthermore, technology has been developed to

produce consistent, comparable results to meet service requirements.

The Association has been involved in the development of European Standards for Pipe Defect Classification, the result being the publication of BS EN 13508:2 in 2003 and subsequent amendments together with the implementation of the National Equivalent in 2008 and its successor.

Operative standards have been set and, in conjunction with Develop Solutions (previously WTi), team leaders and operatives are trained and accredited to meet the standards required by the Water Services PLCs. The National Sewerage Association were also key players in formulating standards for the TrustMark initiative and Energy and Utility Skills when developing the Competent Drainage Operator Registration Scheme.

To date nearly a thousand people have passed the OS post course examinations in sewer condition classification, therefore, there is no excuse for accepting sub-standard results from non-qualified people. Certificates, including a photograph of the candidate, are issued to successful candidates. The Water PLCs now expect all operatives to hold the OS20X MSC55 post course certificate which is renewable every five years.



Training standards have also been developed for sewer jetting and cleaning, in an endeavour to meet new codes of practice and a basics skills course for personnel operating in the domestic market has been initiated, leading to City and Guilds Certification.

The high standards of safe working practice and equipment to meet the requirements of working in sewerage and other areas with similar,



potentially dangerous locations and atmospheres are a hallmark of the association's members. Those same members are often at the forefront in developing technological and operational improvements.

In addition to setting standards, the Association is responsible for the accreditation of its members and, more particularly, in policing and monitoring their performance for customers. The quality systems developed by members ensure that data is reported to the highest possible standards. Reassessment criteria has been developed both for operatives and contractor members which have been introduced to ensure the high levels presently in place are upheld and improved.

The Association has close liaison with the water industry, other utility companies, local and national government, and public sector organisations. At the same time, the Association serves private industry as well as commercial and domestic customers. Regular liaison is maintained with Water UK the Health and Safety Executive, WRc and other organisations.

The Association allows both existing and potential customers to enquire about the objectives of the association, the performance and standards set that is required of its members, the complaints on non-performance and other general or technical enquiries.

Over the past 40 years there has been five chairmen, the current being Phil Reaney who delivers vast experience to the post. Having started work with a civil engineering contractor



before moving to a consultancy, he then went on to Yorkshire Water before becoming an independent consultant.

Val Gibbens, who is the current secretary, started work in local government doing estate services design before being head hunted to oversee the first ever CCTV term contract. The industry has grown significantly over the succeeding decades with Val positioned at the forefront of the CCTV coding developments. Val ensures there is always a good site practice with a fair balance between the water company and contractor requirements.

The National Sewerage Association is keen to promote a fully trained workforce across the range of activities undertaken to the satisfaction of the client from the smallest to the largest. The website directs all contractors towards the legislation in place and the pertinent standards documents required to meet the criteria.

**For more information, please see below.**  
**T 020 8330 0123**  
**nsa@sewerage.org**  
**www.sewerage.org**



## UK Dairy Day 2021

UK Dairy Day is a dedicated annual one-day event for the dairy industry held at the International Centre in Telford, Shropshire at a key time of the year when plans and decisions are being made for the winter.

After 18 months of virtual working and socialising, this year's event took place on Wednesday 15th September and welcomed over 7,000 visitors with trade stands fully sold out in advance. The event was the first to take place in the dairy industry since March 2020 and brought together all facets of the industry for face-to-face networking alongside a showcase of some of the UK's best dairy cattle.

The cattle show was live-streamed showcasing 170 cattle that had travelled from as far as Forres, Cornwall and Inverness. UK Dairy Day hosted the National Shows for the Ayrshire, Brown Swiss, Guernsey and Holstein breeds, along with classes for Dairy Shorthorns and Jerseys. The show hosted 230 trade stands from exhibitors showcasing their products and services, offering

advice, innovative giveaways and providing fantastic hospitality. Furthermore, the show hosted a new format of seminars with the introduction of four industry panels which attracted a record number of attendees. The ever-popular practical demonstrations returned with visitors watching the foot trimming, blocking ad knife sharpening by Tim Carter and his team.

This is our pick of the best exhibitors from this year's show. More information can be found below. Save the date for next year's event when it returns on Wednesday 14th September 2022 at The International Centre, Telford, Shropshire.

[www.ukdairyday.co.uk](http://www.ukdairyday.co.uk)



## Biocell Agri: The yeast specialist

Biocell Agri is a specialist in the field of applied microbiology in animal nutrition, managing rumen function for maximum performance and safeguarding health through effective mycotoxin control.

The company offers the most comprehensive choice of specialist ingredients for the complete diet feeder, home mixer, and any farmer who wishes to achieve maximum return from home produced feeds and forages, while exploiting the true genetic potential of all stock.

High yielding dairy cows and intensive finishing cattle are able to reach their genetic potential for production with enhanced rumen activity and disease prevention. This is achieved through carefully balanced diets and the inclusion of pure live yeast (Biocell) and mycotoxin deactivator (Mycocell), which have been chosen for their effectiveness, consistent performance and health benefits.

What's more, these benefits are not confined to dairy and beef production. After extensive trials with sheep and finishing lambs, Biocell Agri has obtained full EU approval for sheep and milking goats, and Biocell is the only pure live yeast product on the UK market which has been approved for dairy cows, beef cattle and calves, sheep, goats, and horses.



Biocell Agri also covers silage treatment and slurry management through First Choice silage inoculant and Slurrycell, which are highly important aspects of farm profitability.

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M 07718 905625  
[biocellagri@btinternet.com](mailto:biocellagri@btinternet.com)  
[www.biocellagri.com](http://www.biocellagri.com)

## Your automated milking and feeding experts

Lely Center Midlands is a family run business with over 70 years of experience in delivering the latest agricultural technology, innovations and solutions to UK farmers. Based in Stafford, the company also has hubs in South West Wales, Cheshire and Nottinghamshire.

Over its 10 years establishment, it has evolved to provide a full sale to service package that includes project coordination and aftersales support to its customers. Its team of 10 engineers aim to work with farmers to help increase the efficiency and effectiveness of their farm from a productivity and financial perspective. Specialising in all Lely products from astronauts to vectors, its engineers are based at their hubs and available to give a fast and reliable service all year round.

Alongside its sales support, in house barn design expert and farm management support team, Lely Center Midlands offers a complete and on-going partnership to assist its robot farmers in achieving the best possible results from Lely products.

Recently Lely Center Midlands attended the UK Dairy Day Show and were the associate sponsors of the Event & Cattle Guide. Established as a one-day trade event for farmers and the dairy industry, this year saw its return after 18 months following COVID-19.

The company demonstrated its latest product innovation: The Lely Astronaut A5, the latest milestone in milking, designed for longevity and reliability. The milking robot helps achieve improved cow health, welfare and reproduction together with an increased milk yield.

Contact  
T 01785 281250  
[www.lely.com/midlands](http://www.lely.com/midlands)



## Storth Machinery

Founded in 1999, Storth Machinery are the leading manufacturer of slurry equipment across the UK, which is reiterated in our slogan 'ScrapeIT - PumpIT - SeparateIT - StoreIT - MixIT - ApplyIT'. "IT" being the liquid gold element, from cow to field, Storth are a one stop shop.

We continuously develop and improve our products, with three workshops and a staff of 62 FTE helping to achieve a bigger and better product range. We also attend over 25 shows/exhibitions per year in the UK and abroad. Storth continue to export their

quality products to various countries including New Zealand & Canada. Sales Director Chris Richardson sees great potential in the export market without losing focus on the UK market as this is the largest and most important market place for Storth.

The company would not be here without the support of UK farmers and without their loyalty to British manufacturers.

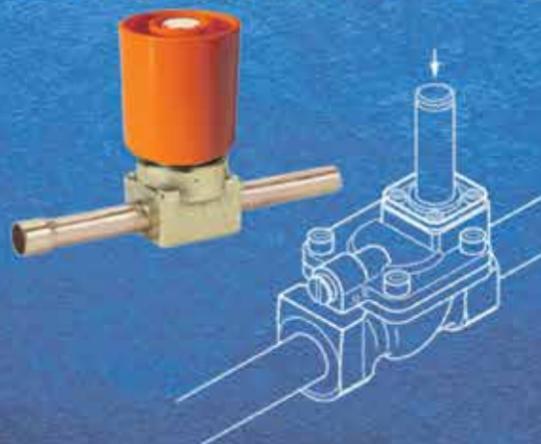
The experience and the flexibility in our quality manufacturing processes enables us to meet the demands of today's modern

farmers and contractors alike by providing quality products supported by great customer service, from initial advice outlining suitable options, through to installation, commissioning and after sales service care.

Contact  
T 01524 781900  
[marketing@storthmachinery.co.uk](mailto:marketing@storthmachinery.co.uk)  
[www.storthmachinery.co.uk](http://www.storthmachinery.co.uk)



## Pumps & Valves Update



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# Why sustainable resin flooring solutions are at the heart of our business

**F**ollowing our first year in business, Abacus Flooring Solutions has developed an excellent reputation for its work in a number of areas, but it's perhaps our efforts to deliver truly sustainable resin flooring solutions that fill us with the most pride.

Like many industries, resin flooring presents several obstacles where sustainability and the environment are concerned, due mainly to the

nature of the materials used.

Traditionally, it wouldn't be unfair to say that the industry at large is responsible for quite a lot of wastage on an annual basis, but at Abacus we wanted to challenge that narrative.

**Why is Abacus so interested in delivering sustainable resin flooring solutions?**

Becoming more sustainable in your operations when you're in this sector isn't as simple as

flicking a switch or chucking a bit of money at a problem; it requires research, knowledge and a sustained investment of time.

But perhaps more important than all of that is passion. You have to truly want to make a difference – and not just be doing it for the good PR or to try to win that extra bit of business. That approach simply won't work.



Underpinning our own approach to sustainability is managing director Nick Megson's own experience and passion in the area.

Having served on the Resin Flooring Association for several years, Nick quickly developed a keen interest in the delivery of sustainable resin flooring solutions, even presenting a talk on the topic to his fellow Association members.

**How does Abacus deliver sustainable resin flooring solutions?**

Today, Abacus is highly passionate about combatting the environmental impact of our industry and we ensure that every project is zero to landfill, wherever possible.

This environmental aspect to our work is a key factor throughout our working relationship with a customer.

And while the delivery of an excellent product and first-class service is of paramount importance, we are always also thinking about the sustainability considerations when planning our work.

This approach has led us into researching and designing a floor screed, which, instead of using quarried aggregate, consists of recycled white plastics, such as toilet seats and light switches.

The result is an epoxy self-smoothing screed that is extremely effective and much less harmful to the environment around us.

Our work in this area has been acknowledged by East Midlands Chamber of Commerce, who have selected us as finalists in the Environmental Impact category in this year's Leicestershire Business Awards.

**What else does Abacus stand for?**

We have more than 30 years' experience in the industrial resin flooring industry, including installations in a wide range of commercial and industrial environments.

Using this experience allows us to ensure we keep on top of new products and technologies to offer completely bespoke solutions to each of our clients.

Our highly skilled team are fully trained in all aspects of the flooring we install, from the preparation, installation and after care service.

We know that our business is first and foremost a service, and our experience allows us to provide the value and advice you require, from the very first site visit.

<https://abacusflooringsolutions.co.uk>



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The PT2500, a fully electric, remote-controlled, pedestrian-operated tow tractor designed for moving articulated lorry trailers up to 25 tonnes.

Remote-control functionality provides enhanced flexibility, manoeuvrability, and safety and optimally uses limited space. Simple to operate and low maintenance, the PT2500 is an ideal partner for anyone working in logistics and distribution.

WWW.BRADSHAVEV.COM/PT2500  
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## Industry innovators and leaders in electrical and mechanical engineering

**E**stablished in 1972 as Grants Electrical Services (NI) Ltd, the Company has grown and developed into GES Group, a leading Electrical and Mechanical Engineering business serving customers throughout Ireland, the UK and Europe. An award-winning industry-leading organisation, the company provide power, energy and turnkey solutions for SMEs and large multi-nationals across a range of industry sectors, including renewable energy for the UK, Ireland and beyond.

Southern Ireland. GES Group will stock and distribute the range of Nidec motors, and the new cloud based condition monitoring systems FORECYTE from both its Northern Ireland base and the Southern Ireland base.

After the impact of COVID-19, GES Group has seen some impressive growth and a successful past year. Lorraine explained, "From January this year we've employed a number of new employees and we are looking to grow the teams further throughout the year. During the pandemic, we had some members of staff working from home that could work from home. We are classed as key workers so were able to offer our services to key customers

throughout the COVID pandemic.

As businesses start to open up, we are able to visit our customers' sites again to promote our valuable services and quality products that will help increase their plant uptime. There's a lot of growth going on at the moment within the business, which is fantastic, and within each department there's recruitment."

As the company looks to the future, GES Group plans to grow its customer base in southern Ireland following its new partnership with Nidec, and will expand our products and services to new and existing accounts. The company



is continuing to recruit new employees and further its mission to provide renewable energy solutions.

T +44 (28)2565 6406  
www.ges-group.com



"We provide a variety of electrical and mechanical services, ranging from electric motor rewinds through to site surveys which would include high voltage, low voltage systems, installation of transformers and maintenance. We design, build and install control panels and supply switchgear as well as offering on site condition monitoring and in-house dynamic balancing," stated Lorraine Farrell, Growth Development Manager.

The group has built a strong and long-standing trading history across a significant number of industry sectors and maintains a strong reputation for providing great customer service.

"We provide a full turnkey service and unlike other competitors, we have five key divisions within the company offering our customers a holistic approach," noted Lorraine.



In terms of recent developments, in 2019 David Moore was appointed CEO at GES Group, having joined the company as Managing Director in 2008. Most recently David co-founded Girona Energy Limited as a Joint Venture created in 2019 and the Girona 'Smart-grid' project worth some £7.5m works

by combining expertise in power engineering, FinTech and big data.

GES Group is offering a smart energy solution that will reduce energy bills for consumers by up to 30%. Using an energy management software platform, the Girona Project uses smart energy solutions combining renewables, storage and energy data. The Girona project is a one of a kind, custom-built, micro grid which has been created to digitalise and decarbonise, to help build a sustainable clean tech infrastructure for net zero.

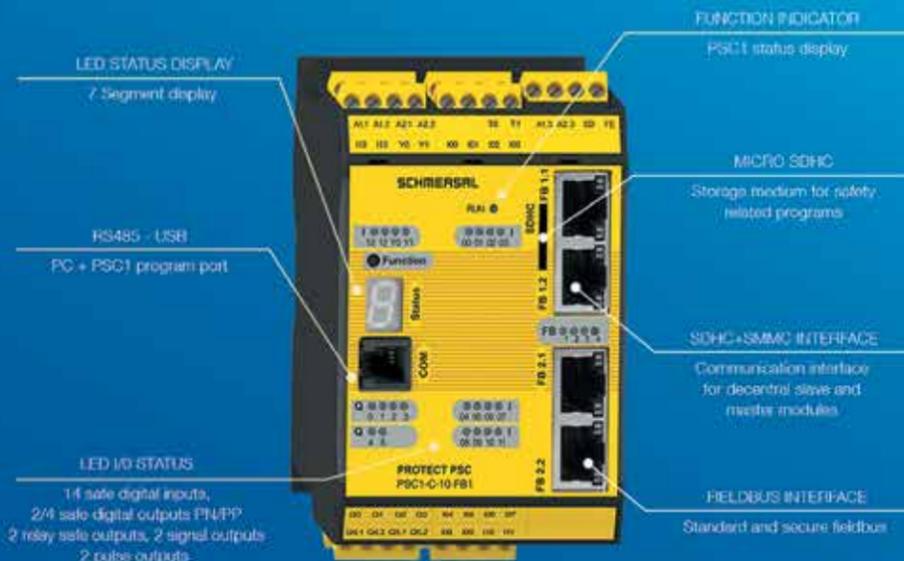
It is the company's objective to see the commercialisation of innovate clean energy technologies and processes accelerated, with significant change brought about in the next 3-5 years, and growth and development delivered into 2030.

GES Group support a wide variety of renewable technologies, in-house within its own infrastructure, and is dedicated to working closely with its clients to outline and achieve specific 'Green' strategic targets and objectives.

Another notable development for the company, in January 2021 Nidec (Leroy-Somer Motors), appointed GES Group as an official distributor for Nidec within



THE LATEST GENERATION OF SAFETY CONTROLLERS  
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### PROGRAMMABLE, MODULAR, MULTIFUNCTIONAL, COST-SAVING

The PROTECT PSC1 is compact, modular and very flexible. It offers further properties, which were previously unavailable. We have successfully achieved a significant development step. It is multifunctional and can be adapted to individual applications in various sectors.

The PSC1 consists of freely programmable PLCs with IO extension modules for signal processing of mechanical and electronic safety switchgear. In addition you can safely monitor up to 12 axes using the extensive features.

These compact controllers can be equipped with a universal communication interface. This makes it possible to easily select and setup different fieldbus protocols via software.

The PSC1 offers the advantage that only one single piece of hardware is required to establish a connection to all common fieldbus systems. This is interesting for our customers from a cost point of view.

The universal communication interface allows secure remote-I/O communication and a secure cross communication at the same time.

All Schmersal-SD-bus sensors can be connected to this universal communication interface, to transfer their data to different participants. In doing so, the universal communication interface takes on the task of a gateway to the respective fieldbus protocols, set via software.

The SafePLC2 programming software offers users a modern development orientated environment. It has extensive libraries with ready-made functions for safe monitoring of sensors and axes. These can be linked easily via "Drag & drop" to form complex applications.

With the PROTECT PSC1 we can now offer our customers even more holistic safety system solutions, which include also our safety services. See our website for more details.



www.schmersal.co.uk  
uksupport@schmersal.com

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# Online Configurator Enables Custom Enclosures to be bought through Distribution

**Foremost Electronics, the Engineering-led Essex based importer and specialist distributor of electromechanical components, celebrates 30 years of Electronic Component sales in the UK in November 2019.**

Founded in 1989 as a direct importer and specialist distributor of switches, keypads, joysticks, connectors and other electro-mechanical products, they have witnessed many technology breakthroughs and major

changes to how products are designed-in and sourced.

One area of particular significance is the design and supply of enclosures. Standard moulded plastic and cast metal boxes have largely been replaced by more aesthetically pleasing modular enclosures and the world of industry standard 19" racks has been transformed.

Industrial control, utilities, instrumentation,

test and measurement, rail and transportation equipment all make different demands on enclosures. These include resistance to moisture, dust and vibration, temperature control, EMC shielding, cable access, sub-racks, DIN-Rails and other internal fittings.

As a channel partner for nVent Schroff, Foremost offers designers access to the world's 1st Online 3D Sub-rack Configurator and Cad File generator. This comprehensive suite of online tools allows users to configure



a bespoke enclosure and sub-rack simply and quickly using the intuitive and smart online design tool.

The configuration process is broken down into stages;

- ▼ Rack type and Front Panel – Security and defense, Advanced Physics, shock and vibration proof, Test and Measurement, Audio/video, Broadcast, Mobile and Stackable
- ▼ Sub-racks, and card locks and retainers dependent on application

The resultant custom designed enclosure provides the user with a proven solution and all relevant documentation including 3D native CAD files, 2D and 3D drawings and complete bill of materials (BOM). The BOM is then simple to order from Foremost. A demonstration video is available to guide designers through the process.

The enclosure specified by the configurator creates files which may be used directly in the manufacturing process, including 3D printing if required. Designers can easily modify or copy a saved configuration and different project lists can be managed in parallel for multiple designs. The process from design to delivery is fully automated and the manufacturing facilities are capable of processing the digital data from the configurator through to delivery with no human interaction, requiring zero paper and compliant with industry 4.0.

The final design is issued with a unique part number which is permanently allocated to the configuration on all documents. The design is costed automatically by the Schroff internal ERP system which can then generate a quotation or be ordered for direct manufacture. Enclosures designed using the configurator are available on the same lead-time as a standard configured product, even with custom modifications.

For less demanding enclosure requirements Foremost Electronics has a micro-site, enclosures4u giving designers a direct source to standard cases and more complex standard, modified and customised enclosures including the first enclosure compliant with the embeddedNUC™ standard which features an innovative "Flexible Heat Conductor" (FHC) integrated cooling solution and is compatible with 1U embedded NUC enclosures.

[www.4most.co.uk](http://www.4most.co.uk)



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# Continued investment plans for Kingston Engineering



**K**ingston Engineering is one of the UK's leading precision engineering companies, expert in the manufacture and production of bespoke power screws. Using materials and specifications to suit customer's exact specifications and needs, Kingston Engineering produce cutting edge power screw components with complimentary nuts and fittings.

Based In Hull in East Yorkshire, Kingston Engineering specialise in manufacturing Right hand/Left hand, Single/Multi-start, Cut Thread Power Transmission Screws and Nuts, adaptable for mechanical power transmission. Kingston Engineering's products are provided to a diverse range of industry sectors in the UK and across the globe, conforming to British, European and American standards.

Kingston Engineering work very closely with both suppliers and end users, with a focus on providing technical expertise and an efficient turnaround service. Their products are used extensively in a range of applications across multiple industries including the aerospace, oil and gas, nuclear energy, chemical and medical sectors and many others.

All customised and purpose-built screws are manufactured and produced to the exacting quality standards of ISO 9001-2015 accreditation.



In addition to producing bespoke precision-machined screws and components, Kingston Engineering provides component reclamation and enhancement, component repair and a corrosion prevention service.

**An enviable reputation**

Kingston Engineering's specialist precision engineering services are built on a wealth of experience and a heritage spanning over 100 years. Founded in 1919, the aftermath of the First World War marks the time frame for the origins of the business. Starting out as Hull Motor Transport and Engineering Co, the business originally manufactured pistons, cylinder grinding and provided general engineering services.

With further expansion in the early years, the company evolved to provide the repair of saw milling and printing machinery. In 1924 the Kingston Engineering Co. Ltd name was adopted, with the manufacturing of screws beginning as early as 1930. Kingston Engineering started manufacturing components for aircraft undercarriages during World War Two.

The ability of the company to adapt and evolve has been a strong characteristic of the Kingston Engineering business. In the decades to follow, continued expansion and a focus on skill and engineering expertise enabled Kingston Engineering to obtain an enviable reputation as a leading precision engineering company.

**Building a resilient future**

With a heritage built on engineering skill, innovation and expertise, Kingston Engineering has shown great resilience and responsiveness to change across the decades. These are the core strengths that still form the cornerstone of the Kingston Engineering business today.

Kingston Engineering continues to build on a strong foundation of engineering excellence and is committed



to continuous investment to build a resilient future. As the company embraces the future, the focus is to continually invest in state-of-the-art equipment, in-house facilities and advanced technologies. This will enable Kingston Engineering to continue to deliver leading precision engineering solutions to both the UK and global market.

As a leading precision engineering company, Kingston Engineering is dedicated to producing cutting edge power screws and components, cut to quality materials and

manufactured to exacting and highest quality standards.

Kingston Engineering offer great flexibility and rapid response to provide unique solutions to customer's specific engineering requirements.

**Contact**  
**T +44 (0)1482 325676**  
**sales@kingston-engineering.co.uk**  
**www.kingston-engineering.co.uk**



## Health & Safety Update

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## EMERGENCY EVACUATION EQUIPMENT & TRAINING

At 3ET we are the experts in emergency evacuation equipment and training. Our years of experience means we design, manufacture and supply emergency evacuation products that really work, to aid patient movement and handling and help make the emergency evacuation of buildings easier, quicker and safer. In addition, our practical product training and 'train the trainer' sessions ensure your staff know exactly how to use the equipment and have the confidence to do so in an emergency.

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## The Emergency Services Show 2021

The Emergency Services Show is the UK's only annual event for all emergency services responders, with a keen focus on emerging technology for the sector. Each year the show has grown and attracts over 10,000 key buyers and specifiers including all fire and rescue, police, ambulance, and search and rescue from the UK and 50 other countries.

This year the show launched a new feature: Future Policing, supported by an Advisory Council chaired by Lord Hogan-Howe, the former Commissioner of the Metropolitan Police Service. Showcasing the latest innovations available for the police sector and sponsored by Audax, Future Policing has the full backing of the Police Federation of England and Wales and featured a two-day, CPD accredited high-level conference with a full line-up of senior speakers.

Health & Wellbeing was another exclusive focus of one of the show's four dedicated CPD-accredited seminar theatres, alongside Lessons Learnt and Emerging Technologies. Free-to-



attend, The Emergency Services Show featured more than 450 exhibiting companies including leading names in search and rescue, extrication, training, protective clothing and uniforms, medical equipment, vehicles and fleet, vehicle equipment, outsourcing and safety. New technology was on display throughout the show including connected vehicles, satellite communications, ruggedised mobile computers, tablets and phones, data, cloud storage and wearable tech.

Virtual Reality technology was a strong feature due to the effects of COVID-19, alongside other online technologies such as Zoom and Microsoft Teams for training. For the first time the event was co-located with The Fire Safety Event, The Health & Safety Event, The Security Event & The Facilities Event, creating the UK's largest event dedicated to the protection of people, places and assets.

This is our pick of the best exhibitors from the show, listed here in alphabetical order: Attenti Electronic Monitoring, ExpertPro, GKL Leasing, INNOV8 Cleaning Solutions Limited, Linkwave Technologies, Northern Diver and Rigloo. More details can be found on this page.

Contact [www.emergencyuk.com](http://www.emergencyuk.com)

## GKL Leasing

GKL leasing is one of the top 10 fully independent leasing companies with the ability to quickly adapt and change for its customers within a flexible market. As it has done now for over 30 years.

GKL Electric is a prime example of this.

3 years ago, we recognised that the EV market was going to go big. Even though we have been dealing with and advising on electric vehicles for over 11 years, it was time to put the resource behind it.

This included a dedicated website giving help and advice for this new emerging market, with a trained specialist EV & Hybrid focused team behind it.

At the earliest point, to give potential customers our own real-world experience, we rotated our own company cars to full EV's with our MD leading the charge (Pardon the Pun) having an EV before any of us and putting us ahead of the pack.



For genuine expertise in Electric Vehicles, tailored leasing contracts from 12 to 48 months, monthly flexi-hire options or salary sacrifice we can give not just the advice but the tools for you to make informed decisions and manage your fleet how you want to.

[www.gkluk.com](http://www.gkluk.com)

## Attenti Electronic Monitoring

Attenti Electronic Monitoring is a global provider of offender monitoring technologies, designed for monitoring individuals within the criminal justice system. Attenti systems are used by government agencies, police forces and private operators throughout Europe, Latin America, the Middle East, the Pacific Rim and the U.S.A. Attenti brings its customers and partners over 25 years of industry experience and technology expertise.

In the UK we are launching a ground-breaking Domestic



Violence Deterrence system. Used extensively in Spain, Portugal and South America, the system uses paired GPS devices, and a perpetrator / offender ankle tag. The devices monitor GPS & RF location in accordance with pre-set parameters, and will send out alerts to our platform, victim device (optional) police and or monitoring company, if the perpetrator gets too close to victim, both at home and on the move. Both devices act as hardened mobile phones and can receive calls and SMS messages from secure vetted sources. The victim device also has a panic button feature.

The technology is protecting some 10,000 domestic violence victims every day, and we are hopeful the government will take notice and utilise this type of technology more widely in The UK to keep more victims safe here.

[www.attentigroup.com](http://www.attentigroup.com)

## Linkwave Technologies Showcase the new 5G XR Series In-Vehicle Routers

Linkwave Technologies has been attending the Emergency Services show since 2019, demonstrating the latest in-vehicle data router communications and antenna solutions. In 2021 the focus was on 5G products from Sierra Wireless, with their new line of super-fast in-vehicle routers. Linkwave has supported blue-light organisations with a range of products from the 4GLTE MG90 Series router, the MP70 and now the latest and one of the fastest routers on the market, the XR80 and XR90.

Chris Ryan, Sales Manager for Linkwave said "5G is our focus in 2022 as it delivers connectivity on par with today's wired broadband services, giving your business the flexibility to expand high-speed communications into places you never considered, whether it is video or data, to gain real-time control and visibility".

The XR Series offer ultra-fast speeds and data rates, lower latency and higher capacity – all of which are critical aspects to the emergency services and like its predecessor, the MG90, the XR Series will soon be fully ESN certified, making it a great choice for blue-light organisations.

For more information contact:

Chris Ryan - UK & Ireland Sales Manager  
T 01522 884750  
[chris.ryan@linkwave.co.uk](mailto:chris.ryan@linkwave.co.uk)



## ExpertPro

ExpertPro was born out of the desire to lead the way in providing innovation, effective & Industry leading products to support the healthcare sector, with a bespoke award winning service.

With decades of experience and product knowledge, the company's specialist team of professionals supplies all areas of the healthcare sector across the UK & Ireland with the most advanced PAPR (powered air purifying respirator) in the world.

CleanSpace HALO is the gold standard in personal respiratory protection for workers in the emergency services sector or in clinical settings. This award winning system was designed by biomedical engineers, and

houses Smart technology in a revolutionary compact design. CleanSpace delivers the highest HEPA/P3 protection (99.97% filtration efficiency for 0.3 micron & above) in healthcare whilst being comfortable, quick to don & doff and is easily integrated into any setting.

It has a patented AirSensit technology which delivers cool, filtered air on demand – up to 230 L/min airflow for up to 9 hours operating time. It also has a transparent, soft medical grade silicone mask which allows for clear voice transmission for easy communication.

It also features the world's only BSIF commended Steri-Plus filter,



which filters the exhaled air, making it the perfect choice for those working in sterile environments such as operating theatres.

Please contact us [www.expertpro.co.uk](http://www.expertpro.co.uk)

## Rigloo



"The First Responders used the Rescuer to provide a mobile treatment room for a casualty over a prolonged time scale. The Rescuer kept the casualty and treating medics dry and much warmer than had they been outside during the long, cold night.

They also commented very favourably on the mosquito netting that provided significant respite to both treating medics (and, by extension, the patient) over a

prolonged period in a very mosquito infested location.

All told, the responders rated the Rescuer highly. Where resources allow (vehicle, helicopter, kit dump or SAR team member carrying), the Rescuer is a real asset and is a game changer in terms of cost effective, lightweight, short term and environmentally protected treatment haven for casualties. A remote area temporary redoubt!

The Rigloo Rescuer improved the



patient (and treating professional) experience, and that is most definitely a good thing in our book.

The rapid environmental benefits the Rescuer brings - protection from rain, wind, sun, and insects is a huge benefit - as is the privacy that is afforded.

It's a great product and has a multitude of uses, wherever a team has resource and capacity to transport to site (or pre-insert)."

Matthew Davies FRGS  
Director, Remote Area Risk International

T +44 (0)141 2915021  
[Info@rigloo-rs.com](mailto:Info@rigloo-rs.com)  
<https://rigloo-rs.com>

## INNOV8 Cleaning Solutions Limited



INNOV8 Cleaning Solutions Limited exhibited at this years Emergency Services Show at the National Exhibition Centre for the first time. Over the past 9 years Innov8 has gone from strength to strength within its specialist sector, providing planned Infection Control Deep Cleaning Services to many of the UK Ambulance providers and NHS Trusts.

Demand for emergency decontamination services throughout the pandemic increased to levels not seen previously within the sector, INNOV8 was able to meet all its clients' needs and no client was left un-supported, all decontaminations were safely carried out by our Infection Control Operatives.

In-addition to the provision of our vehicle Infection Control Services the demand for medical and emergency premises expanded and Innov8 was able to provide its clients with professional infection control deep clean services ensuring these vital workplaces

remained operable throughout. INNOV8 was recently appointed as the infection control deep cleaning provider for the Children's Air Ambulance, providing routine planned deep cleans of the patient compartment of the operational aircraft.

The Emergency Services Show gave us the opportunity to network our skills to many other users of infection control deep cleaning services and placed the company in the wider emergency service sector.

T 01782 766 433  
[www.innov8cleaning.co.uk](http://www.innov8cleaning.co.uk)

## From Strength to Strength for Northern Diver

Established for over 45 years, Northern Diver has gone from strength to strength, despite the challenges of the past year. Their Specialist Rescue Equipment (SRE) team attended this years' show with a record year of sales under their belt, having seen a vast increase of exports within Europe, Asia and the US markets.

Northern Diver both design and manufacture an exceptionally diverse range of rescue equipment, currently serving over 200 organisations worldwide. They are constantly striving for success and are continually developing their equipment to ensure they remain leaders in the water rescue sector.

Only this year they have seen the production of their famous, bespoke rescue suits return to the UK and have plans for new, innovative high-wear fabrics for their range of suits. The team are also currently working on exciting, brand-new equipment, sure to reignite the rescue sector – so watch this space!

Northern Diver received great feedback from the show

and want to remind all organisations that they are always on-hand to offer bespoke demo days and site visits, to ensure you have the perfect SRE to suit your needs.

Contact Craig or Dan by  
T +44 (0)1257 25 69 41  
[rescue@ndiver.com](mailto:rescue@ndiver.com)  
[www.ndiver-rescue.com](http://www.ndiver-rescue.com)



## WP launches first 100% recyclable valve for Dispensing Closures



Sustainability is an integral part of Weener Plastics' (WP) strategy. WP also recognises that convenience and quality are fundamental and should not be compromised. Respecting sustainability as well as functionality, WP's Innovation & Development team has developed an unprecedented solution: the world's first 100% recyclable valve for Dispensing Closures.

### 100% recyclable

WP's Innovation & Development team has created the perfect solution: a 100% recyclable valve that offers fully controlled, clean dispensing. The valve is made of a specially developed material. This enables full recycling with polyolefin waste streams – regardless of the bottle material.

### Uncompromised functionality

This recyclable valve offers a fully controlled and clean dispense of any quantity the consumer may require. The dosing behaviour can also be adjusted, depending on preference. Valve dimensions are exactly the same as those of WP's familiar silicone valve. The valve is suitable for WP's standard closures as well as for customised designs.

### Widely applicable

WP's new valve is highly versatile and compatible with a wide range of applications such as food, home care and personal care. When used to dispense oily or fatty formulations, this recyclable valve also performs better than any other solution.

[norwich@wppg.com](mailto:norwich@wppg.com)  
[www.wppg.com](http://www.wppg.com)

## Robatech Gluing Technology on show at PPMA

It's good to be back! The PPMA Show is taking place in Birmingham from 28th to 30th September 2021. At this year's PPMA show the Robatech team will be presenting a new dimension in adhesive application: high-performing, energy-saving and robot-assisted.



This will be the first opportunity for visitors to see Robatech's smart, new Vision Melter (pictured above). In combination with the new Performa Heated Hose and the SpeedStar Compact Application Head, demanding packaging can be glued quickly, efficiently and with high precision.

Based in Basildon, Essex, Robatech Gluing Technology are the exclusive distributors of genuine Robatech equipment, spare parts and service to customers in UK and Ireland.

With high quality hot-melt and cold gluing systems for packaging, graphics, automotive, building, woodworking, pharmaceutical and many other industries, the local Robatech team will be on hand at the show to discuss your gluing requirements and challenges.

We look forward to meeting you on **Stand E60**.

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## NO-DIG LIVE Review 2021

The unmissable trenchless technology exhibition, NO-DIG LIVE, returned to the Peterborough Arena & Events Centre this year for what turned out to be another highly successful trade-specific gathering.

From 14-16 September 2021 the biennial event was set in motion for the 15th time, bringing together a range of industry professionals for a jam-packed schedule of educational and networking opportunities.

The show witnessed exhibitor displays and working demonstrations as key elements in the programme to which visitors were treated to witnessing a wide range of technologies in action.

As well as the other exhibits, NO-DIG LIVE 2021 featured

The Sewerage Solutions Panel, The Green Alliance, UKSTT Pipe Jacking Mini Masterclasses, and JBP Trenchless Training.

This facility is one of the main reasons as to why NO-DIG LIVE is not just another simple exhibition. It is also, impressively, the only platform in the country aimed at manufacturers and suppliers of trenchless technology-based solutions.

This is our pick of the best exhibitors from the show, listed here in alphabetical order: Bucher Municipal, DCR Inspection Systems, Force One, Jetchem and Picote. Further details can be found on this page.

[www.nodiglive.co.uk](http://www.nodiglive.co.uk)



## Bucher Municipal – one of our top 10 exhibitors at the No-Dig Live Show

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Bucher Municipal offers a complete product range for effective sewer cleaning. Sewer cleaning units from Bucher Municipal play a central role in ensuring a sustainable approach to the use of water and profitable business for customers.

Offering sewer cleaning equipment for municipal, contracting, and construction applications, Bucher Municipal only use high-quality components and advanced technology. Offering three types of units; Combinations Units, Recycler Units, and Special Units, each product is innovatively designed to meet specific purposes.

This year at the Excel Centre in London, the 15th biennial

No-Dig Live Show welcomed a variety of innovative, industry leading specialists in trenchless technology to meet and discuss the latest industry developments. The show is the only forum in the UK where manufacturers and suppliers can display and demonstrate products at an event which is truly focused on the facilitation of changing trends in trenchless technology.

From the 14th of September – 16th of September, the event involved talks from key stakeholders in the trenchless industry. Exhibitors demonstrated and showcased their equipment in a live working environment to visitors from a variety of industry sectors.

Providing outstanding results over the three days, Bucher Municipal attracted the eye of many visitors. Its mission is clear and concise, to keep your world clean and safe. Offering the widest product portfolio in the industry, its keen eye on the environment and commitment to finding the right solution for the customer, make it an industry leading company in its field.

For more information, see below.

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## Jetchem showcase new jetting pack options

No-Dig Show 2021 was an exciting year for Jetchem/Superjet with several new jetting packs having their first showing to the public.

Amongst the new units the PTO driven jetting pack seemed to catch people's attention the most. Jetchem's new pack brings the best of modern technology to provide a jetting system which utilises the vehicles engine to provide the power to the pump, this provides more room for tools and extra equipment such as lining or CCTV systems.

Coming with a performance of 3000 psi @ 55 lpm (200 bar @ 12 gpm) and due to the design allows the user to choose a range of water tank sizes. This pack provides a super compact, performance beating unit at an extremely low price point.

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## DCR Inspection Systems

DCR is home to the UK's largest fleet of drain inspection cameras for hire. We also have drain cleaning and repair equipment for hire, with every item on our fleet – along with everything else a drainage professional could ever need – available to purchase in our drainage superstore. Our team of experienced engineers can also repair and service all models of drain camera.

We began trading in 2007 – repairing and servicing electrical drainage equipment – and quickly became known for the quality of our work and exceptional service. Identifying a gap in the market, we reinvested profits back into the

company; purchasing drain cameras and making them available for hire. This allowed our clients to take advantage of this technology, undertaking more advanced, profitable work without high up-front costs.

Devoted to providing our customers with an exceptional service, we help them access the equipment they need to complete jobs quickly and to the highest standard.

Doing so consistently, we have established ourselves as a leading provider to the drainage industry. We've continued to reinvest in the company, adding new items to our



hire fleet and developing products such as the innovative ManUp Key, a seal breaker for releasing seized access covers.

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## Force One

Force One is a family run company providing a service with a corporate veneer. The size of our fleet constitutes one of the largest privately owned Suction Excavation Fleets in the UK giving us national reach with relative ease over both road & Rail.

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Our 3 Ton Tracked IVAC systems provide self-propelled, self-contained working for smaller spaces, operated by our A78 qualified teams these assets can combine to provide an exceptionally flexible Suction Excavation solution. Our own maintenance schedule combined with



24 hr fitter support ensure continuity of service and reliability throughout our deployments.

All of our onsite teams and office personnel have a collaborative approach to assist in achieving the best possible solution for our customers.

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## THE POWER OF PICOTE, ANYTIME, ANYWHERE!



As shown recently at No-Dig Live, the Picote Mini Cleaner and Mini Miller are now available as cordless, battery-powered models. Making quick work of cleaning, descaling and removing roots, the Battery Mini Cleaner operates inside DN32 to DN70 pipes and the Battery Mini Miller inside DN50 to DN100 pipes, both with capabilities to reinstate connections in DN50 and DN70 pipes.

Simply add a Mini Coating Pump to expand the potential still further, offering Picote Brush Coating™ with

either model (DN32 to DN70 Battery Mini Cleaner and DN50 to DN150 Battery Mini Miller).

So what is the hype about? The battery powered Mini Miller and Mini Cleaner are designed to be used in exactly the same way as the plug-in models.

The difference is that the clutch, motor and, of course, power supply, have been designed to provide the best cordless experience possible. Providing three hours of continuous work as standard, the battery can be upgraded to the High-Output version which extends to four hours - you can even charge the battery while you work!

Not only is it convenient, it is also easier to transport and operate too, no need for a transformer! Featuring stepless speed control, both models run at 800-2200rpm and can

navigate multiple or tight 90° bends.

Both the Battery Mini Cleaner and Battery Mini Miller are equipped with useful safety features: protective outer shaft casing (so that the cable is safe to hold), shielded operator presence foot control, electric safety clutch and emergency stop.

The Battery Mini Cleaner comes with either a cleaning package for DN32 to DN40 pipes depending on your requirements. Both Millers can be upgraded to +C versions with integrated colour camera to track progress while you work.

Contact us for further details:  
[sales@picotesolutions.com](mailto:sales@picotesolutions.com).



## The UK's largest gathering of EBME engineers

The medical equipment exhibition and conference, EBME Expo, returned to the Milton Keynes Marshall Arena this year for what turned out to be another highly successful gathering. Committed to advancing medical equipment knowledge and management to deliver sustainable improvements for healthcare providers, the EBME Expo 2021 was chaired by Dr John Sandham.

From June 30th – July 1st, 2021, the annual event was set in motion for the 11th time, bringing together the largest gathering of EBME engineers within the UK for a jam-packed schedule that focused on the latest innovations and advances in medical equipment technology on day one, and medical equipment management on day two.

This year, the programme featured eight speaker



sessions each day, and an additional three workshops in the break-out areas where exhibitors provided technical demonstrations.

The event featured well-known, distinguished speakers, and an exhibition hall full of internationally respected companies. A range of both large and smaller exhibitors were on hand to demonstrate their latest products.

Save the date for next years event on 28th-29th June 2022 at the Ricoh Arena, Coventry.

[www.ebme-expo.com](http://www.ebme-expo.com)

## Wassenburg

Wassenburg is a global leader in the field of flexible endoscope decontamination and has one of the UK's largest install base.

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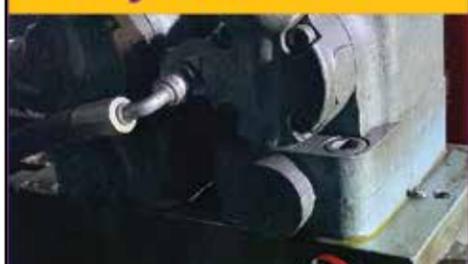


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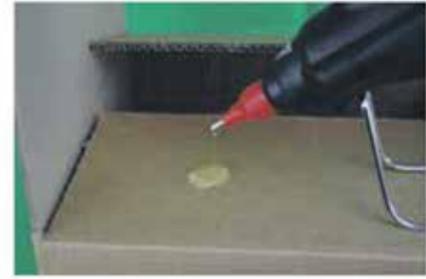
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# Scotland's leading electrical contractor

In this issue of Industry Update, we have selected Q Electrical Industrial Services as our Electrical Industrial Engineering Company of the Year.

"This award means a lot to everyone at Q Electrical as we all see this award as confirmation that we are all on the right track with our plans and how we are delivery them to our customers, new and old," Kevin Brown, Quantum Controls Managing Director.

Q Electrical Industrial Services was initially started in February 2021 after a new partnership was formed through Quantum Controls acquiring Lothian and Borders Electrical. Known as one of Scotland's leading electrical contractors with over 40 years' experience in the electrical and engineering industry the company offers a reputable service focusing on cost effective solutions, the company also delivers professional advice on the design of electrical installations.

a large focus on its environmental and safety awareness. Located in Pencaitland, East Lothian, Q Electrical Industrial Services extremely experienced electricians operate to the highest standards of workmanship at all times serving all areas of the UK.

Q Electrical Industrial Services emerges from acquisition of Lothian and Borders Electrical by Quantum Controls who combined have over



electrotechnical carer in the local Midlothian Coal Mining industry and then progressed onto starting his own electrical company in 1995 which evolved to incorporate the industrial, commercial and domestic sectors. Years later, still a family run business, the high standards remain from when it first began. Its experienced engineers are equipped working across a broad range of sectors such as control and automation, installation services, electronic repairs, inspection and testing, emergency breakdowns, power factor correction, PLC and HMI programming, harmonic surveys, and EV charging installation.

"We now have engineers on call out Rita 24/7 to ensure our clients can request a team to site at any time of day or night when their processes have failed. We have also created a in house team of PLC experts who have the experience to install, program, repair and design full PLC systems," stated Kevin.

From start to finish, Q Electrical Industrial Services can assist customers through any stage

of a project electrically, offering day to day engineering support to its clients.

A recent service that Q Electrical Industrial Services now offers its clients is a full compressor maintenance and repair service.

Over the past 12 months, Q Electrical Industrial Services has also made some in-person changes within the team, "Lyall Colvin is now Managing Director, and a new management structure has been put in place within the operational and engineering teams," Kevin continued, "We have employed a further 11 members of staff this year too and are currently looking for more highly trained electrical engineers to join our growing business. However, we are finding this challenging in the current climate due to staff



As an approved and accredited NICEIC (National Inspection Council for Electrical Installation) contractor, Q Electrical Industrial Services instil

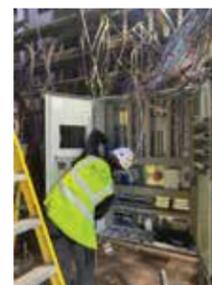
65 years' experience in the electrical industry working with and partnering such companies as Mitsubishi, Danfoss, Vacon, Schneider Electric, WEG. Furthermore, their engineers are fully trained on Nidec Control Techniques and Siemens Drives, allowing the company as a whole to use its combined skills and knowledge to offer customers a full turnkey electrical solution.

Kevin described how the past 12 months have faired with the recent changes within the company, "they have been challenging and exciting times. We started the new company on February 1st, 2021, when Quantum Group undertook the acquisition of Lothian and Borders Electrical and created Q Electrical Industrial Services keeping the owners Robert and Lyle Colvin as major shareholders within the business. We set challenging growth targets and have surpassed all of them with the help of all original staff who have embraced the new restructured the business model."

The company was set up by originally by Robert Colvin who started his



shortages throughout the UK in many sectors. Despite this, we have been able to attract good people and hope this continues to be the case going forward."



Its clear to see that Q Electrical Industrial Services has received exponential growth over the past 12 months, recording sales to date increasing by 134% from the previous year which is above the targets it set itself as a new company. A remarkable achievement made by a combined efforts of all involved at the company.

In terms of future plans, Kevin explained further "in the short term we are to continuing to build our engineering team numbers along with the addition of more admin staff. As far as long-term plans go, we are looking for a larger premises to operate from to accompany our expansion."

For more information, see below.

T 01875 816 302  
sales@qelectrical.co.uk  
www.qelectrical.co.uk

