



# TRENCHLESSWORKS

THE VOICE OF THE TRENCHLESS COMMUNITY

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## NO-DIG LIVE SHOW PREVIEW

TRENCHLESS  
REHABILITATION  
OF PRESSURE PIPES

PICOTE AQUA  
LAUNCHING TO UK  
MARKET

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# CONTENTS

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ARTICLE	PAGE	PIPELINE REHABILITATION	
SPOTLIGHT	5	TRENCHLESS REHABILITATION OF PRESSURE PIPES	39
<b>NEWS</b>		PE ELECTROFUSION LIVE HEAD APPROVED BY CADENT GAS	41
MORRISON WATER SERVICES RESPOND TO WASTEWATER NETWORK FAILURES	6	LEAKAGE INNOVATION: MAKING CHANGE TODAY	44
PICOTE AQUA LAUNCHING TO UK MARKET	7	THE ORIGINS OF THE DIE DRAW PROCESS	46
BRITISH WATER APPOINTS MARK FLETCHER AS CHAIR	10	<b>HDD</b>	
TOWMATE TRAILERS – PART OF THE ATE UK LTD GROUP	12	TRACTO PS40 RESCUES A BRAND NEW DRIVEWAY	48
ELECTRIFY YOUR SEWER CLEANING	15	<b>TUNNELLING</b>	
DCR – THE CUSTOMER-CENTRIC APPROACH	18	LANDMARK BREAKTHROUGH FOR ROBBINS	50
M GROUP SERVICES PROGRESSING TOWARDS NET-ZERO	19	<b>ISTT SOCIETY NEWS</b>	
SUNBELT RENTALS SHINING SPOTLIGHT ON INNOVATIVE NEW PRODUCTS AT NO-DIG LIVE	22	A MESSAGE FROM THE CHAIR	52
WATERWAYS ACHIEVES CONSTRUCTIONLINE GOLD MEMBERSHIP	25	WELCOME TO ISTT'S 38 <sup>TH</sup> ANNUAL NO-DIG CONFERENCE AND EXHIBITION	54
PASSING ON THE KNOWLEDGE, EXPERIENCE AND EXPERTISE!	26	<b>NASTT NEWS</b>	66
LATERAL REPAIRS PRODUCT SUPPORT CENTER OPENING IN THE UK!	28	<b>UKSTT SOCIETY NEWS</b>	
MCELROY WELCOMES ERIC DUERR	29	HELLO FROM THE CHAIR	71
KARYN GEORGES AWARDED CIWEM FELLOWSHIP	30	IAN VICKRIDGE	73
THE PULL OF TRENCHLESS TECHNOLOGY	31	DAWN GREIG UKSTT CHAIR LOOKS BACK ON HER TENURE	74
ELECTRO SCAN EARNS 'TOP PRODUCT OF THE YEAR' AWARD	34	WHAT IS PARKINSON'S?	76
OBITUARY GRANVILLE BULL	36	SHORTLIST ANNOUNCED	78
WATER INDUSTRY NEEDS PEOPLE	37	<b>EVENTS AND MEETINGS</b>	87
		<b>NO-DIG LIVE 2022 – A PREVIEW</b>	88

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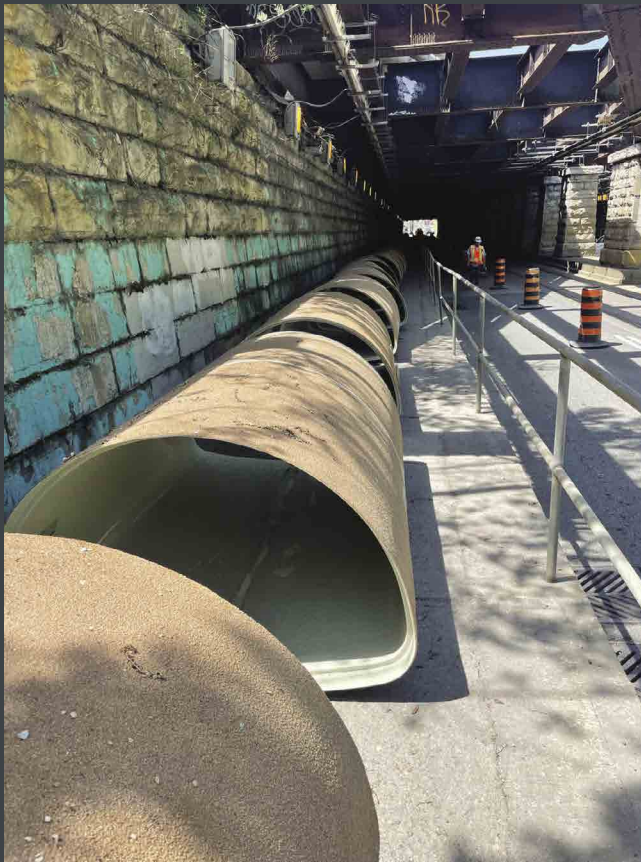
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## Beyond the Ordinary



# SPOTLIGHT



Paul Harwood, Managing Director  
– Westrade Group Ltd,  
Publisher – Trenchless Works,  
Executive Sub Committee – Int'l  
Society for Trenchless Technology

The trenchless world of events is certainly gathering pace. September of course brings us No-Dig Live.

This year's event is not only the biggest No-Dig Live in its 30 year history but also to date the world over.

No-Dig Live is the most influential event for the Trenchless market, providing an unmatched platform for the global trenchless market. This year's event will unite the trenchless community and provide leading-edge innovation, knowledge, and business opportunities, whilst promoting a more sustainable environment around the world. The event includes a host of activities including live demonstrations, knowledge exchange, networking and of course the UKSTT Gala Dinner and Awards Ceremony. I cannot wait to get started and extend a warm welcome to everyone from myself and the whole Westrade team – we are bursting with excitement to bring you the biggest No-Dig Live ever.

The 38<sup>th</sup> ISTT International No-Dig will be held for the first time in Helsinki, Finland between 3 and 5 October 2022. Exhibition space is in high demand, along with high-level papers presented in the Conference, where almost 400 delegates are expected. Visitors and delegates have a great opportunity to discover the high-level products and services originating from North Europe. If you have not booked your exhibition stand or conference ticket visit [www.nodighelsinki.com](http://www.nodighelsinki.com) and make a booking.

November brings us the Mexican Trenchless Technology International Seminar, on 30 November 2022 at the Westin Hotel, Santa Fe, Mexico. The Seminar programme put together by NASTT will comprise technical and case study presentations alongside exhibits from sponsoring organisations. There will also be a Networking Reception for the 2023 ISTT International No-Dig. Visit [www.trenchlessmexico.com](http://www.trenchlessmexico.com) for further information or see me in person at No-Dig Live or in Helsinki.

In addition, I am happy to announce the forthcoming No-Dig Roadshow Series in Warrington in association with UKSTT, United Utilities and Cadent. This will take place on Tuesday 22 November 2022 at The Park Royal Hotel & Spa, Warrington. The UKSTT is compiling the seminar programme and more information regarding speakers will be released very soon. Please see any member of the Westrade team for further information.

Trenchless Works will be at all the events filming, so be sure to contact us to ensure you are included.

I look forward to seeing you all soon on the showground.

# MORRISON WATER SERVICES RESPOND TO WASTEWATER NETWORK FAILURES



Morrison Water Services operating for Thames Water.

Morrison Water Services, a part of M Group Services' Water Division, has secured a place on a wastewater multiple supplier framework to deliver services that will help Thames Water meet its performance targets for pollution, flooding and blockages.

Morrison Water Services will be delivering reactive and planned complex works, responding 24/7 to resolve wastewater network failures, where replacement or repair is needed.

The framework covers sewer and rising main repairs, excavations, manhole repairs and replacement, flow management, asset mapping and CCTV sewer inspections and survey work. The framework has an estimated value of £17 million a year, split across five suppliers.

This new framework agreement cements a long-standing partnership between Morrison Water Services and Thames Water, build over more than 20 years. This award is for five years to 2027, with an option to extend each year for a further three years.

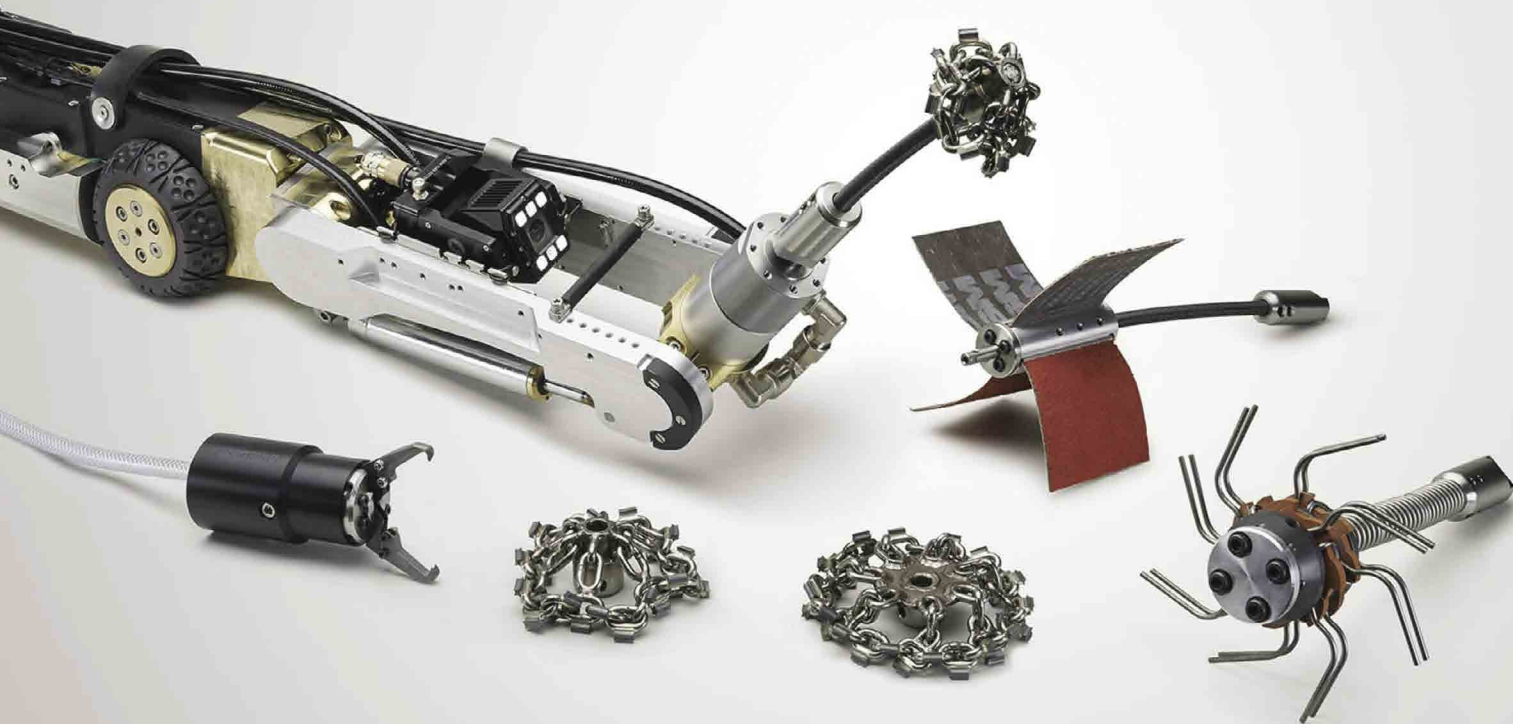
Kevin Parcell, Morrison Water Services Contract Director, said: "As a leading service provider in the water and wastewater infrastructure sectors in the UK, we are delighted to have been recognised by Thames Water for our ability to run complex engineering projects and their continued faith to deliver on their behalf. Thames Water has ambitious plans to continue modernising its network. They clear around 75,000 blockages from the sewers each year and are on a mission to prevent blockages and sewer flooding in homes and businesses. They have also made clear long-term commitments to protect and enhance the environment in their region. We look forward to using our extensive capability and commitment to innovation and sustainability to help Thames Water achieve their ambitions for the benefit of customers and the environment."

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# PICOTE AQUA LAUNCHING TO UK MARKET



The Schwalm Talpa Robot and accessories.

Picote Solutions is excited to launch Picote Aqua to the UK market at No-Dig Live. Picote Solutions is an innovator and manufacturer of high-speed machinery, tools and methods for the cleaning and rehabilitation of small diameter pipelines DN32 to DN300.

Picote Aqua utilises the same tried and tested machinery and tools deployed at thousands of wastewater worksites around the world every day, for clean water applications. Picote Aqua Millers offer increased range and capabilities, they can be nanocoated for additional hygiene, featuring food-grade shaft lubricant for extra safety.

High-Speed cleaning and descaling operations have become mainstream in wastewater applications over the last few years. Traditional mechanical cleaning equipment rotates at speeds of around 200 rpm, whereas high-speed cleaning machines start at 500 rpm and then increase to 1,500 to 2,900 rpm depending on the model. By opening up these possibilities to the clean water sector, more can be achieved in much less time, not only reducing traffic disruption and carbon emissions, but enabling rehabilitation to tackle leakage targets.

Picote Aqua Millers have a small worksite footprint and can fit in any standard-sized work vehicle. They are less labour intensive than traditional methods, requiring fewer operatives. They can be operated dry without the need to use any water, however, the dust and debris arising from the cleaning process must be removed using either a vacuum, blower, plunger or a small amount of water. The rotating shaft is housed inside a plastic outer casing allowing the operator to safely hold the shaft during operation. >

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A Tiger Drill pipe cleaning chain.



The Picote Aqua Miller which is now launching in the UK.

The machines are also fitted with a safety clutch (either mechanical or electrical) to provide extra protection to the operator when it is in use, along with an emergency stop switch. As the outer casing does not rotate, the operator can attach a CCTV camera behind the cleaning head and monitor the entire process. A range of tools are available and attach to the end of the shaft to clean even hard tuberculate, including Chains, Drill Chains, Special Drill Heads, Smart Cutter™, Smart Spider and Smart Sweeper. These can also be nanocoated if required.

The 110 V Aqua Midi Cleaner has 10 mm diameter shaft and is suitable for cleaning DN50 to DN150 pipes. It features a 23 m range which can be extended by 10 m to 33 m overall. Next up, the 110 V Picote Aqua Maxi Miller offers the most versatility within the current offering, with a stronger 12 mm diameter shaft it is suitable for DN70 to DN250 pipes and has a 30 m range which can be expanded to 45 m with an extension shaft. Finally, the Picote Maxi Power+ is a 3-phase 400 V machine with an 18 mm diameter shaft, suitable for cleaning DN100 to DN300 pipes. The company's most powerful machine, it has a range of 18 m which can be extended to 49 m with extensions.

To increase the current range, Picote now exclusively offers the Schwalm Talpa Robot series for clean water pipelines in the U.K, enabling contractors to work up to 200 m when required. The Talpa 1330 is suitable for DN150 to DN300 pipes and the Talpa 2060 for DN200 to DN600. Compatible with industry-leading CCTV systems, the Talpa series includes interchangeable components between robots. Servicing and technical support is available in Scotland and England at our Training Centres.

Picote is committed to the continued development of safe, reliable, cost-effective pipeline cleaning equipment that meets the operational and environmental challenges that network owners face in maintaining the supply of high-quality drinking water to their customers. The Picote Aqua Mega Miller for clean water is currently undergoing testing and is set to expand Picote operations even further, with a reach of over 100 m from a single access point.

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# BRITISH WATER APPOINTS MARK FLETCHER AS CHAIR



“Water is undergoing a rapid but exciting transformation, as it evolves to manage unprecedented climate and population-related challenges. British Water and its members are at the forefront of the drive to deliver positive change and I am proud to be able to help them navigate this journey.”

Mark Fletcher, global water leader at Arup and an Arup Fellow, has been announced as British Water’s new chair. The appointment was announced at the trade association’s annual general meeting on 28 July 2022 and comes as Chris Loughlin steps down from the role.

Fletcher joined the British Water non-executive board in 2020 and is former chair of the Water Industry Forum, which merged with the organisation in April 2022. He has over 35 years’ experience working across water in the UK and globally.

An international authority on urban water resilience, Fletcher was made an Honorary Fellow of CIWEM in March 2021, a Royal Academy of Engineering (RAEng) Fellow in 2019 and an Honorary Fellow of the Society for the Environment in June 2018.

He has worked on the City Water Resilience Approach, developed to help cities grow their capacity to both anticipate and mitigate water-related shocks and stresses. Fletcher was also faculty leader for the Arup University - Massachusetts Institute of Technology Sloan Business School course, Resilience of Urban Systems from 2017 to 2020.

He said: “I am honoured to be taking up the position of British Water Chair. Water is undergoing a rapid but exciting transformation, as it evolves to manage unprecedented climate and population-related challenges. British Water and its members are at the forefront of >

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Rachel Lewis, UK Forum Chair,  
British Water



Tom Williams, International  
Forum Chair, British Water

"I passionately believe that British Water members are the future for UK international business. What a privilege to be at the helm as International Forum chair, as we connect and collaborate with water's leading global players."

the drive to deliver positive change and I am proud to be able to help them navigate this journey. I am passionate about what we do and keen to ensure that British water engineers, scientists, planners, managers, economists and companies play their part in developing increasingly more sustainable and resilient water management fit for the future."

Other key appointments announced at the AGM were Rachel Lewis as UK Forum Chair and Tom Williams as International Forum Chair. Rachel is joint owner and director of IQ Engineers and was formerly vice-chair of the UK Forum.

She said: "It has been a pleasure using my business experience to support fellow water industry suppliers through the UK Forum. I am proud to be able to increase that support by taking on the role of chair. The work of the UK Forum in enabling members to connect with contacts, explore opportunities for collaboration and share best practice is of huge value. I look forward to building on what has already been achieved in helping members grow, innovate and share their expertise."

Williams is chief executive of Enebio and has been British Water's USA export mentor for 10 years, as well as vice-chair of the International Forum.

He said: "I passionately believe that British Water members are the future for UK international business. What a privilege to be at the helm as International Forum chair, as we connect and collaborate with water's leading global players."

British Water chief executive Lila Thompson said: "I would like to congratulate Mark, Rachel and Tom on their appointments. Their skills and knowledge already bring huge value to the support we offer the British Water community and I look forward to working even more closely with them in the months and years ahead. On behalf of the British Water board and management team, I would also like to thank Chris Loughlin for his dedication and guidance since becoming chair in 2016. Chris has seen us through some difficult times, not least the covid pandemic, and his contribution to British Water and the entire sector has been exceptional."

British Water's UK Forum supports members with an interest in the UK municipal and industrial market. The forum meets twice a year to review the water market, hear updates from leading industry figures and identify key challenges to be taken forward by British Water.

The International Forum enables members to connect with leading players in the global water industry. Services include access to business mentors, market briefings and businesses development meetings with key buyers.



# TOWMATE TRAILERS – PART OF THE ATE UK LTD GROUP

A Towmate Trailer.

Towmate Trailers is a UK based trailer manufacturer in the southeast of England, in Colchester, Essex. It is a family-run business and has been trading in the industry since 1995.

As a business, the company is committed to providing innovative, durable towed solutions to transport equipment and materials safely. Focused on durability, safety, and innovation its in-house engineering team is constantly looking to improve and enhance its range and build a set of products that do not just solve a problem, they do it better.

Towmate prides itself on the fact that its products are built by its customers. The company constantly strives to improve and better its products by listening to the market and the feedback it gets from customers that are using its products.

## BUILT RUGGED

Built from the ground up, all of the company's trailers have a tough, galvanised steel frame, symbolising the durability and versatility customers expect from Towmate Trailers. The modular, signature chassis design provides a flexible base on which to adapt and build bespoke trailers to suit businesses requirements and needs.

At the heart of all of its products is a trailer that is designed to provide a pleasant towing experience. As standard, all trailers have tough steel mudguards, LED dual voltage lighting and quality running gear built for the tough terrain typical of the construction, landscaping, and utility industries.

With all trailers, Towmate backs-up the purchase with a standard 3-year warranty covered by the Pro-Cover service. All the parts that make up the trailers are common parts stocked by Towmate's sister company, AlphaParts. This all-in-one service helps to minimise downtime and cost associated with repairs. >

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“Featuring our steel Towmate mudguards, and multiple improvements made to make various elements of the trailer more robust, the new Raptor pipe trailer really embodies the durability that Towmate Trailers is known for.”



A Towmate trailer awaiting loading.

## HISTORY

The company started manufacturing trailers in 2017 following the acquisition of a pipe trailer company. AlphaParts, the trailer parts and spares side of the business, has been operating for over 26 years, and throughout that time, the company has learnt a lot about the industry and gathered much expertise and experience with trailers. In 2019, Towmate started the process of producing and manufacturing its own Rhino Plant Trailer range, which was launched in September 2020. Following the success of this launch, it then released the Ram General Duty range in February 2021, followed by the Osprey Rolling Chassis in February 2022.

## NO DIG LIVE 2022

After a period of two years, Towmate Trailers is pleased to be attending the No-Dig Live show. The company will be exhibiting at the show with some exciting new products and also showcasing further improvements that its engineering team has been making on existing ranges.

The Raptor Pipe Trailer will be on show with a new and improved design that has come about as a result of customer feedback. Featuring steel Towmate mudguards, and multiple improvements made to make various elements of the trailer more robust, the new Raptor pipe trailer really embodies the durability that Towmate Trailers is known for.

The company will also be displaying a brand-new product; its first cable drum trailer. Based on the signature modular chassis, this product has been in the making for over 12 months. Following intensive testing and customer feedback, Towmate is pleased to be showing a prototype at the exhibition. As standard, the trailer features hardwearing durable LED lights, heavy-duty mudguards, durable running gear and a 3-year warranty package.

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# QUICK LOCK

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- After the installation the sleeve has its own static capability and absorbs the natural tectonic movements of the pipe

### Types of installation

- Single installation
- Serial installation (from DN 200)

## Product range

### Quick-Lock

- Available:  
DN 100 – DN 800 (one-part) and  
DN 800 – DN 2000 (two- or three-part)

### Quick-Lock Flex

- For radial offsets up to 2.5 cm
- Positional deviations up to 10° without pre-work
- Available: DN 200 – DN 600

### Quick-Lock Mini

- DN 100, DN 125 and DN 150
- In length 145 mm and 90 mm
- For bends up to 45°

### Quick-Lock Liner end connection

- System to connect CIPP liner system to pipes and buildings
- The space between the CIPP liner and the host pipe is permanently sealed
- The liner end is protected against mechanical influences of high-pressure cleaning
- Available:  
DN 100 – DN 800 (one-part)  
DN 800 – DN 1600 (two- or three-part)





# ELECTRIFY YOUR SEWER CLEANING



A Bucher GullyFlex Tanker.

This year has seen many developments for Bucher Municipal. With the expansion of both the road sweeping and sewer cleaning lines, the company is driving the way forward in innovation. The two most exciting product launches of the year are a fully electrified sewer cleaning unit which will revolutionise urban cleaning and a new expansion of the range with an all-new gully sucker.

The UK will see the brand new electric CityFlex C40e come onto the market this year. After the launch at IFAT 2022 in Munich, it has been incredibly well received and interest is steadily mounting. The CityFlex C40e sets a milestone for the electrification of heavy-duty vehicles and makes operations in urban zones quiet and free from tail pipe emissions.

The machines have been developed by top engineers at the Bucher Municipal factory in Silkeborg, Denmark, where high quality sewer cleaners have been produced since the 1950s. Per Lovring, Managing Director of Bucher Municipal Denmark said: "I see this (the CityFlex C40e) as a game changer for the industry."

Bucher Municipal has optimised the technology from the successful Bucher CityFlex C40 to meet the special requirements for working in urban zones, where regulations of CO<sub>2</sub> and diesel emissions have been tightened. The powerful 265 kW battery has an impressive range of 200 km and up to 3 hours of operational time. With the ability to recharge to full in as little as 2 hours, and its compatibility with type II charge stations means range anxiety is a thing of the past. >

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Left: A Gully Flex unit in operation. Right: The CityFlex C40e unit.

Bucher Municipal is leading the way in electrification of Municipal vehicles with its road sweepers and winter maintenance equipment being the first to be electrified, and now with the expansion into electric sewer cleaners Bucher Municipal now offers electric versions of products in every division.

This year also sees the additional introduction of the Bucher Municipal GullyFlex, a medium and low volume combination unit. This entry level combination unit carries all of the Bucher product qualities customers value with simple controls, allowing users of alternative products to easily adapt to the Bucher gully tanker.

The 8m<sup>3</sup> body is manufactured from 6 mm carbon steel for outstanding durability and improved resale value and can be fitted with a stainless-steel insert for easier discharge. With dual lifting cylinders, the hopper is more stable and can be tipped to a 45° angle.

The Gullyflex can be purchased with a full hydraulic gully boom for improved ergonomics or a manual gully boom for low cost. The jetting pump options provide a 35 l/min, 250 bar option for basic gully cleaning and washdown or a 120 l/min, 160 bar pump for jetting and unblocking sewers and gullies.

The Gullyflex will be mounted in the Dorking factory in Surrey, this benefits not only the environment by reducing air miles and bringing the production to the UK, but also allows for shorter lead times and delivery. The units can be mounted on wide range of 18 t chassis options. The first units will be built onto DAF chassis, with Volvo and Renault following in 2023. Bucher Municipal UK plan to build 60 units in 2023 but the capacity can be increased if required.

The Gullyflex can be equipped with a range of storage options to give the operators optimum comfort and ergonomic storage solutions for efficient working and the new safety options ensure best practice and a safe operating environment.

All the Bucher Municipal sewer cleaning units can be supplied with the holistic fleet management software, Bucher Connect. This allows full fleet management from one single touchpoint, view work analytics and plan out routes for the most efficient workday.

With the incredible developments that are happening across the sewer cleaning and water fields, it is truly an exciting time to be a part of the industry.

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**NEW  
PRODUCT**

# Brawo® Magnavity Lining System

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We hear regularly from our customers visiting DCR Inspection Systems' drainage superstore, that the array of high-end inspection cameras, drain clearing equipment, drainage tools and more, offers many options for drainage professionals.

Based in South Wales and roughly 20 minutes from Cardiff, DCR's 7,500 ft<sup>2</sup> (697 m<sup>2</sup>) premises is clear proof of how putting customers first yields great results. DCR's founder, Andy Butler, started the company 15 years ago when he began repairing drain inspection cameras in his shed. Dedicated to providing his customers with exceptional service, competitive prices and fast turnarounds, he quickly outgrew his surroundings. With more and more clients came the need for more space and DCR expanded, growing both its workforce and its base of operations, taking on new employees and opening a service centre in 2014.

Over the years, many of the professionals that visited Andy commented on how they experienced downtime and were unable to earn whilst their equipment was being repaired. Determined to address this common problem and now in possession of both a larger premises and team, he reinvested the company's profits into a fleet of drain cameras that he then made available for hire. Providing a solution to an issue that impacted their clients and drainage professionals throughout the UK, DCR's hire service quickly grew in popularity. The profits this generated were once again invested back into the company, further growing and improving DCR's hire fleet. Soon, DCR partnered up with manufacturer Minicam, becoming both an official service centre and seller of its products.

Having experienced exponential growth, DCR outgrew its old premises and moved into its drainage superstore in the middle of 2021. Today, it is home to the UK's largest fleet of drainage equipment for hire, a drainage superstore that contains everything a drainage professional could ever need, and a large workshop undertaking multiple repairs each day. The company has also teamed up with other powerhouses such as Picote and launched consulting and drainage van fit-out services. Many would see such growth and attribute it to business acumen. This is no doubt true in part, but Andy attributes the company's success to its devotion to customer care and exceptional service.

"Our goal is to provide our customers with the best tool for the job," Andy said. "We listen and find the best product or solution for the client. We want to help them, not to profit from them. We know that, if we do a good job for our customer, profits will take care of themselves. We will happily spend time discussing a job with someone in order to ensure they get the best piece of kit for a job and that means equipment that will get the job done quickly and affordably. We are never going to upsell for the sake of it, it is just not how we do business."

It should come as no surprise to hear, then, that DCR's prices are amongst the most competitive around. Combine this with its renowned service and it is little wonder that the company has grown into one of the country's largest providers of specialist equipment and home to several thousand square feet of drainage paradise!

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# M GROUP SERVICES PROGRESSING TOWARDS NET-ZERO



M Group Services, a leading service provider to essential infrastructure in the UK, is marking Net-Zero Week by reflecting on its positive progress towards halving its carbon emissions by 2030 and becoming net-zero by 2050.

The Group has been forging ahead on its commitment to the environment and operating in the most effective and sustainable ways. The positive changes the Group has made were recognised earlier this year, when it received a top public ESG rating from independent, international rating agency, Sustainalytics.

M Group Services pledged to support efforts to limit global warming to 1½°C and cut carbon emissions by signing a letter of intent to cut down on carbon emissions in support of the Science Based Targets initiative (SBTi) in March.

The Group also committed to joining the UN Global Compact in April, becoming part of the world's largest sustainability initiative, which will ensure 10 principles on human rights, labour, environment and anti-corruption are part of business strategy, culture and day-to-day operations.

M Group Services is leading the way with its approach to environmental, social and governance (ESG) risk management. The Sustainalytics ESG risk rating of 9.6 makes the Group a leader in the business services support sector, compared to a sector average of 21.9. It also places the Group in the top 1% of global companies for its commitment to the environment and sustainability, managing the impact on and support for local communities and its commitment to established policies and procedures, with a 'negligible risk' of reputational and operational risks through its direct and indirect suppliers.

Jim Arnold, M Group Services' Chief Executive, said: "Supporting a sustainable future and the UK's target to achieve net-zero by 2050 is fundamental for M Group Services. I am proud of the progress we are continuing to make across all our divisions and operating businesses towards achieving our net-zero aspirations and those of our clients. It is more crucial than ever we fulfil our commitments to the Science Based Targets initiative (SBTi) and the United Nations Global Compact by achieving our own net-zero target." >

“Supporting a sustainable future and the UK’s target to achieve net-zero by 2050 is fundamental for M Group Services. I am proud of the progress we are continuing to make across all our divisions and operating businesses towards achieving our net-zero aspirations and those of our clients.”

Recent net-zero progress includes:

- A PPE recycling scheme that enables every Group operating business to sustainably dispose of the more than 200,000 items of PPE used each year. Covering all types of PPE, it will be recycled into car roof insulation, panel linings and compressed mattress fillings.
- M Group Services Plant & Fleet Solutions has recently completed a three-month carbon reduction roadshow visiting nine venues nationwide and demonstrating a range of electric and battery-powered equipment available to use on site, including the fully electric Vauxhall Vivaro, electric 109te mini excavator, battery-powered rammer, cut off saws, hammer drills, battery-powered LED light towers and groundhog units. Some of our clients joined people from our operating businesses to find out about the positive changes the business is implementing.
- The Micheldever Road materials Recycling Facility is a partnership between Milestone Infrastructure and Hampshire County Council providing a sustainable solution to decarbonise highways. In the first full year, the facility is predicted to recycle 35,000 t of construction waste into Industry Highway Standard materials and save 665 t CO<sub>2</sub>e.
- Dyer & Butler, is moving away from non-renewable petrol-power and towards battery powered tools, having successfully conducted a fossil fuel-free project. When urgent work was needed to clear a rockfall away from a railway line, the Wales minor team used battery powered tools to remove excess vegetation from a steep rock cutting. Following the success of the trial, the Dyer & Butler team is adopting these battery-powered tools going forward.
- Morrison Energy Services entered a framework agreement in May with electric vehicle (EV) charging provider Be.EV to help deliver more than 1,000 chargers and four big charging hubs across the North of England.
- PMP Utilities recently used its expertise in confined space engineering to design a bespoke solution and install new hydraulically actuated valves on the Glasgow Sludge Line. This solution will cut operational costs, reduce health and safety risks to operatives and improve durability of the pipeline for Scottish Water (SW). The company dries and pelletises sludge into Refuse Derived Fuel (RDF) for incineration to produce electricity for the country.
- Avonline Networks announced the success of an innovative workplace app in March. The app, which provides a real-time flow of communication between engineers and office-based staff on the progress of works, has reduced delays for our people, increased customer satisfaction and reduced return visits, resulting in less vehicle miles on the road therefore saving on CO<sub>2</sub> emissions.



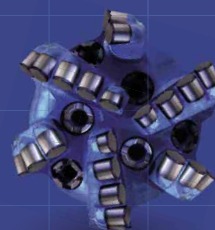
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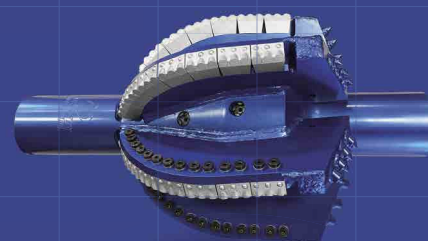
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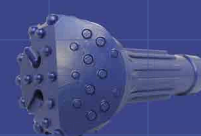
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# SUNBELT RENTALS SHINING SPOTLIGHT ON INNOVATIVE NEW PRODUCTS AT NO-DIG LIVE

Sunbelt Rental's new pressure testing system.

Specialist utilities equipment rental provider Sunbelt Rentals is showcasing a series of innovative new products and greener solutions at No-Dig Live 2022.

The company, which has over 200 depots nationwide, will be unveiling a brand new PE pipe pressure testing solution for the first time. Combining specially designed equipment with an intuitive app, the solution feeds directly into the Sunbelt Rentals Command Centre and SmartSite app.

Compatible with both Apple and android devices, the system comprises an app enabled, digital data logger that determines a pass/fail test for type 2 pressure testing. It incorporates enhanced safety features to abort tests if the test is going to fail or is deemed unsafe due to air content.

The new pressure testing solution has been specifically designed for the utilities and pipelines sector, as calculations for testing potable water pressure pipelines have been translated into >

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One of Sunbelt's electric-powered units.

"The new pressure testing solution has been specifically designed for the utilities and pipelines sector, as calculations for testing potable water pressure pipelines have been translated into computer code and embedded into the SmartSite app."

computer code and embedded into the SmartSite app. Sunbelt Rentals' web-based Command Centre displays critical information and test certification.

The equipment is lightweight and fully rechargeable, providing 48 hours of continual use. With GPS tracking, it enables instant on-site results, imaging, live decay curve plotting and automated air calculation and elevation correction. Sunbelt Rentals' utilities specialists will be on the stand throughout the duration of the show to provide demonstrations of the new pressure testing solution.

### Battery Powered Electrofusion

Also on the stand will be the new EFuze range, representing the first battery powered welder that can be used all day, every day. With the most powerful battery unit on the market, it takes just 60 minutes to charge the battery from flat to full, providing an average of two weeks' work on a single charge. This rechargeable welder has the power to silently weld over 200 couplers (32 mm diameter) on one charge. EFuze will help customers to achieve net zero by reducing carbon emissions of the welding process by 98%.

The World's Most Sustainable Welfare Range Sunbelt Rentals is leading the curve in equipment rental and providing utilities customers with an extensive range of greener products. Visitors to No-Dig Live 2022 will be able to see the 'Deep Green' welfare unit which holds the title as the 'world's most sustainable welfare range'. Solar powered with 100% renewable energy, a combination of solar energy and the use of HVO biofuel results in virtually zero emissions. The 'Deep Green' unit has a 3.5 kVA back-up generator on board but most of the time, the generator will not need to start at all. Generator run time is reduced by a minimum of 98%.

Almost silent in operation, the unit has minimal water use. A micro-flush system uses as little as 0.5 l of water per flush, compared to 6 l in a standard toilet, representing a water saving of over 90%. Rain harvesting and grey water recycling cuts water refills and reduces waste.

The 'Deep Green' welfare unit is carbon neutral in operation. CO<sub>2</sub> emissions are reduced by an average of 8,283.3 kg annually and it allows a fuel saving of approximately 3,090 litres of fuel per year. At the end of its life, the unit is 97.2% recyclable.

### Electric Plant

Another attraction on the Sunbelt Rentals stand will be the company's electric excavators. The company has invested significantly in the latest electric plant, offering the largest fleet in the UK rental market. All electric plant is designed to match the power and performance of diesel-powered alternatives, providing an effective solution to working in zero emission zones, noise sensitive areas, enclosed spaces, tunnelling and night work.

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**VISIT US AT**

# NO-DIG LIVE 2022

**13-15<sup>th</sup> September**  
**Outdoor Stand 7**  
**East of England Arena & Events Centre**

**2022**  
**NO-DIG LIVE**

**SUNBELT RENTALS**

# NO-DIG ROADSHOW 2022

**2022**  
**NO-DIG ROADSHOW**

Part of a series of one day seminars and exhibitions providing an insight into the very latest innovations in trenchless technology

**Warrington**  
**Tuesday 22 November 2022**  
**Venue: The Park Royal Hotel & Spa,**  
**Warrington WA4 4NS**

To book please contact:  
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 The No-Dig Road Show series is organised by Westrade Group Ltd and supported by the United Kingdom Society for Trenchless Technology (UKSTT)



# WATERWAYS ACHIEVES CONSTRUCTIONLINE GOLD MEMBERSHIP

Waterways Drainage recently announced it has achieved Constructionline Gold Membership. To achieve gold membership, Waterways had to undergo a number of stringent validation checks. The company constantly looks at ways to improve its service, with a view to exceeding client expectations.

PAS 91 is a standardised pre-qualification questionnaire which has been developed to reduce the need for suppliers to complete a variety of different pre-qualification questionnaires for different, and in some cases, the same clients. Developed by the British Standards Institute (BSI), the question set has been commissioned by Government and is a recommended common minimum standard for construction procurement. Updates to PAS 91 were introduced in 2013 through consultation with professional bodies and trade associations such as the National Federation of Builders (NFB), Electrical Contractors' Association (ECA), Specialist Engineering Contractors' Group (SEC) and Safety Schemes in Procurement (SSIP).

With all public sector buyers needing to pre-qualify construction suppliers, inefficient buying practices can amount to huge amounts of wasted time and money for buyers and suppliers alike.

By delivering a standardised PQQ format, PAS 91 aims to:

- Help suppliers understand what information is required from them at pre-qualification stage
- Increase consistency between various pre-qualification questionnaires and databases
- Help buyers identify suitably qualified contractors

To achieve Constructionline Gold membership, Waterways had to pass an enhanced prequalification questionnaire that goes beyond PAS91. This assessed Waterways' credentials for environmental management, quality management, equal opportunities, modern slavery act adherence and anti-bribery and corruption policies.

As well as enhanced prequalification, all Gold members are assessed for Safety Schemes in Procurement or SSIP. The Constructionline team is accredited to assess and award 'Deemed to Satisfy' SSIP certificates for health and safety, something that all construction buyers look for in supplier selection.

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# PASSING ON THE KNOWLEDGE, EXPERIENCE AND EXPERTISE!



Mr Tom Sangster  
MD – Downley Consultants

JBP is delighted, once again, to have been invited by Paul Harwood and Westrade, the organiser of No-Dig Live, to run a programme of short training sessions, on the opening day of the event, in Peterborough, UK. Some readers may recall attending the very well received training session it ran with Dr Dec Downey last September, on the important area of Cured-in-Place Pipe (CIPP) Design and Current Practice.

This short course generated plenty of discussion and will form the focus of an extended course to be made available in the near future on JBP's on-line platform – [www.trenchless.training](http://www.trenchless.training).

This year we have extended the programme, to include a number of short training sessions, working with JBP's team of trainers who include some of the sector's most recognisable faces. Between them have more years of experience than they might care to admit to. Julian Britton from Wessex Water will introduce the programme, with insights into applications of CIPP for pressure lining works, as well as the importance of mentoring and training for the next generation of engineers.

Don Ridgers, formerly Principal Engineer at one of the UK's largest water and wastewater services companies, will share his considerable expertise and experience, examining effective tools for predicting failures in rising mains. Julian and Don will be joined by Tom Sangster who has offered extensive technical consulting services for over 30 years, internationally, to many of the sector's key utilities and contracting companies. Tom will be focusing on inspection and assessment beyond leak detection for Water Mains.

One of the main pillars to JBP's trenchless training programme of courses is to work with experts from various parts of the trenchless sector, who, in addition to their evident professional expertise, bring to the table a considerable accumulation of knowledge and experience.

JBP is therefore delighted to be able to work with the aforementioned experts in bringing training opportunities to prestigious events such as No-Dig Live. >

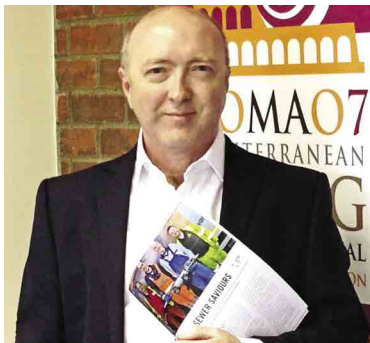
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Mr Don Ridgers  
Former Principal Engineer at a  
leading U.K. Water Utility



Mr Julian Britton  
Rehabilitation Manager  
Wessex Water



Dr Dec Downey  
Principal – Trenchless Opportunities Ltd.  
Past Chairman of ISTT

The scope of the event, by its nature, will only allow the trainers to scratch the surface and offer short training sessions that provide a focus on key points and priorities. These points need to be inspected in much more detail to gain a fuller understanding of context, technical considerations and correct applications. The good news is that through JBP's Trenchless Training Programme, together with many of the sector's leading experts, JBP will continue to develop essential and relevant courses, and make them readily available and easily accessible through its on-line platform.

In the next month JBP will add three new courses to those already available. These courses have been designed and developed, over the last year, in close conjunction with JBP's team of experts and trainers - Dr Downey, Tom Sangster and Don Ridgers. The courses focus in areas that our research has told us are much needed and in demand from utilities and consulting companies alike.

The course developed with Dr Downey provides a comprehensive overview of trenchless technologies and methods for sewer pipeline rehabilitation. This course is an update on an earlier course first successfully delivered in 2019 and has now been adapted for on-line access. It will help inform key decision making when selecting appropriate methods and technologies.

The courses developed with Tom Sangster and Don Ridgers examine in detail the processes of effective inspection, assessment and decision-making for Water Mains and for Rising or Pumping Mains respectively. These courses are the first in a series of two courses, with the second courses focusing on rehabilitation and replacement.

What all these courses have in common is the contribution and input of the experts who have been involved in their development and delivery, in sharing their knowledge, experience and expertise. It is fundamental to the continued success, growth and innovation within the trenchless sector, for this transfer of knowledge to take place, and for the next generation of engineers to have access to this invaluable resource.

This knowledge and know-how transfer will not only be of considerable benefit to individual engineers and technicians and the companies and organisations for whom they work who seize the opportunity and sign up for appropriate training. It will also benefit the sector as a whole, in promoting use of trenchless methods, awareness of its benefits, and its successful applications.

JBP initiated its trenches training programme, over five years ago, after several years of working in a market in which trenchless rehabilitation methods were still a relatively new innovation. It became very clear that without related training and education, the successful use of trenchless methods was far from being assured, and therefore opportunities that might follow would be frustrated. JBP is pleased to be working with some of the sector's most experienced experts, providing a platform for knowledge transfer to the next generation of trenchless practitioners, and in some part ensuring successful trenchless outcomes and opportunities.

# LATERAL REPAIRS PRODUCT SUPPORT CENTER OPENING IN THE UK!



A cut-away view of the new colour-changing FAST CAST EVO Resin System.



The new facility in Tauragė, Lithuania.

Founded 2006, Lateral Repairs has been working with projects for No-Dig solutions for Europe and working on Global projects and product developments. From the start company commitment has been to invest in new technologies and combined with greater capacity, to be able to meet the growing market demands, develop innovative, cost-effective products that provide long term leak-free solutions for rehabilitated sewer and storm water networks.

Lateral Repairs has quickly outgrown its existing premises. So, at the end of 2021 the company opened a brand-new production facility for rehabilitation pipe liner operations in Tauragė, Lithuania. All of Lateral Repairs' pipe rehabilitation operations have moved from its current production location to the new facility. All carrier materials including DrainPlusLiner, MegaLiner, NanotechLiner, T;Y;X Connection Liners are manufactured in factory.

As part of the company's ongoing commitment to accelerating performance in a sustainable way, the facility features a number of new technologies designed to increase resource efficiency and reduce energy consumption.

With the new space in Leek, Staffordshire, UK customers will have experienced support and also be able to view and trial the latest innovations. Lateral Repairs is well positioned to work more closely with customers and respond with greater speed and efficiency.

"We have been gradually increasing our Global distribution network and we will be introducing some interesting and industry first products including: New UV-LED technology and colour- changing FAST CAST EVO Resin System in near future. 2022 continues to be an exciting year. We will soon be incorporating a Scanprobe service centre and also the Lateral Repairs liner range will be available at the London Depot allowing easy access to customers in the southern part of the UK. This facility will also help us to react quicker to our clients demands and reduces the product delivery time." said Drew Holland, director of Lateral Repairs.

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## MCELROY WELCOMES ERIC DUERR

“Eric will be a valuable asset to our purchasing team, as we strive to continue exceeding the expectations of users of McElroy equipment.”

McElroy, one of the world’s leading designers and manufacturers of thermoplastic fusion equipment, recently announced the arrival of Eric Duerr as the company’s new Purchasing Manager.

“Since its founding, McElroy has remained committed to providing our clients with the highest-quality products, and that level of service begins with the sourcing process,” said McElroy President and CEO Chip McElroy. “Eric has a proven track record of success, and we are happy to have him come on board to lead our purchasing department.”

A native Oklahoman, Duerr brings 15 years of procurement, sourcing, and inventory management experience, mainly in the oil and gas industry. He has developed and led the performance of numerous purchasing and sourcing teams in the United States, Canada, Egypt, and the United Kingdom.

Before arriving at McElroy, Duerr was the Western Hemisphere Strategic Sourcing Manager for TD Williamson in Tulsa, Oklahoma, USA. He holds a bachelor’s degree in Economics from the University of Oklahoma and a master’s degree in Business Administration from Oklahoma Christian University.

“Eric will be a valuable asset to our purchasing team, as we strive to continue exceeding the expectations of users of McElroy equipment,” said McElroy Senior Operations Manager Philip Maud.

As Duerr transitions into his new role, he will be working closely with Maud, who will be moving into a new role to focus on McElroy’s inventory, planning, and execution processes.

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# KARYN GEORGES AWARDED CIWEM FELLOWSHIP



“Since I started working in the sector, I have seen many positive changes in terms of gender diversity. Around 10% of CIWEM Fellows are women, with the proportion increasing every year. “You cannot be what you cannot see”, so I hope I can act as a bit of inspiration for other women to apply too.”

The UK managing director of technology and business consultancy Isle, Karyn Georges, has been awarded the Chartered Institute of Water and Environmental Management (CIWEM) Fellowship, the Institute's highest membership grade.

CIWEM is the leading royal chartered professional body dedicated to sustainable management of the environment, globally. CIWEM works with a community of thousands of members and organisations in over 89 countries who are dedicated to improving water and environmental management for the benefit of the public.

The fellowship provides recognition of major career achievements and contributions to the water sector.

Alastair Chisholm, the director of policy of CIWEM said: “Congratulations to Karyn on achieving FCIWEM. This prestigious qualification acknowledges the positive impact you have made on the profession, not to mention your long-standing and active contribution to the work of CIWEM's Wastewater and Biosolids Specialist Panel. Around the world, people face new and challenging water and environmental problems every day. Achieving FCIWEM demonstrates you have made a significant contribution to addressing these issues and will enable you to continue to inspire others and help future generations.”

Karyn Georges said: “I feel very proud to have been admitted as a Fellow to CIWEM. I have been a member for nearly 20 years, and passionately believe in the mission of the Institute - to build a global community of water and environmental professionals dedicated to working for the public benefit. Since I started working in the sector, I have seen many positive changes in terms of gender diversity. Around 10% of CIWEM Fellows are women, with the proportion increasing every year. “You cannot be what you cannot see”, so I hope I can act as a bit of inspiration for other women to apply too.”





# THE PULL OF TRENCHLESS TECHNOLOGY

Lead service pipes are being replaced across the country.

Gas and water distribution networks across the UK are in constant need of repair, maintenance and renewal. Trenchless methods allow network companies to do this work more efficiently and cost effectively, but the pace of change is increasing.

For example, the UK water regulator, Ofwat, has set stringent targets on UK water companies to reduce leakage by 15% in the current AMP7 period. This is a step change in the drive to minimise water loss, and the water companies are having to think outside the box to achieve their targets. In the gas sector, replacement of ageing steel pipelines, prone to corrosion, is critical. The search for new innovative technologies is ever more important, and often rightly focus on preventative methods and increasing use of robotics to identify faults in pipelines. But when it comes to the actual job of physically renewing the small diameter service pipe network, the trenchless world is still dependent on what are now considered 'traditional' methods – primarily insertion and moling.

Water companies and gas distribution network companies are steadily and methodically working hard to replace the ageing metal pipes with polyethylene pipes (PE) to minimise the risks of leakage and ensure the network performance is maintained. This includes the miles and miles of small diameter service pipes which connect each property to the mains gas pipeline. It is a painstaking task with supplies to around 22 million customers in the UK.

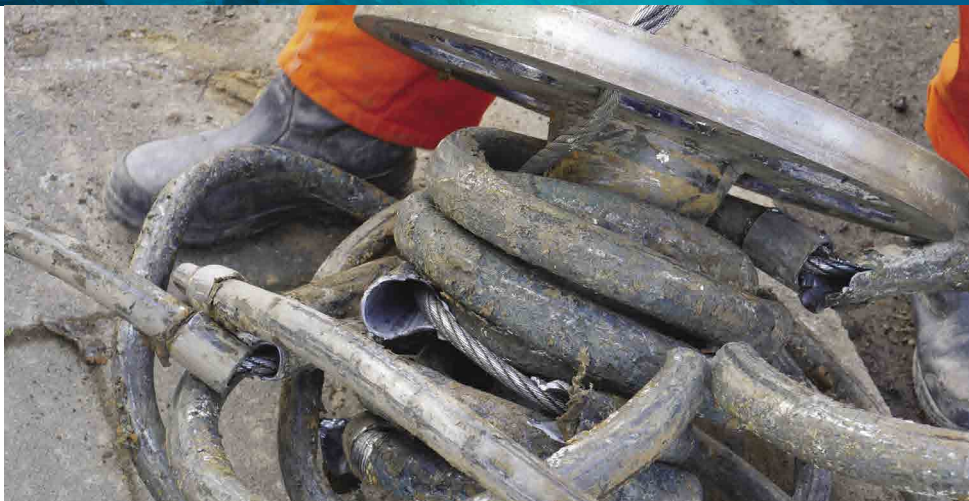
More recently in the gas sector, there is increasing attention on the transition from natural gas to alternative, zero or low carbon energy sources such as green hydrogen and heat pumps. Some of these alternatives can utilise existing infrastructure, but in the case of hydrogen for example, this will require polyethylene pipes for transport putting additional pressure on the need to replace the existing steel pipes. The lower density and lower energy content of the fuel also means large swathes of the network will need further upgrade to potentially larger diameter pipes to carry the larger volumes. >

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A service pipe having been removed and replaced using a Kobus Pipe Puller.



For service pipes to properties, this may mean not only upgrading from steel to polyethylene pipes but also from smaller diameter (20 to 25 mm) to larger 32 mm diameter service pipes. The Gas Distribution Network companies – Cadent Gas, Northern Gas Networks (NGN), SGN, and Wales & West Utilities (WWU), already utilise trenchless technology wherever feasible and practical. Moling has been successfully used to install smaller diameter polyethylene pipes for decades and inserting a polyethylene pipe through the existing steel service pipe is similarly widely used to minimise the amount of expensive and disruptive open cut excavation. But both have their limitations. Moling carries an inherent risk of damaging surrounding utilities or veering offline in certain ground conditions, not to mention the negative environmental impact of leaving the decommissioned pipe in the ground. Insertion is limited in length to ensure sufficient volume of gas can keep all the gas appliances working.

The UK gas network now has a viable alternative trenchless technology to replace existing small diameter (up to 32 mm) service pipes with new PE pipes. Pipe Pulling has been used extensively in the UK water industry and in the North American gas and water sectors to replace steel, copper, lead and PE service pipes. The development of the technology by Kobus Services, the originator of the technique from its original concept used by the water industry, has required extensive testing over hundreds of trial sites across the UK.

The process is simple, robust and user friendly. The technique involves feeding a steel pulling cable through the existing pipe and attaching the cable to a powerful hydraulic winch (Pipe Puller). Two small excavations are required at each end of the existing pipe so keeping disruption to homeowners, pedestrians and road users to a minimum. The new PE pipe is towed into place behind the old pipe as it is removed in a single operation. For the gas networks in the UK, pipe pulling offers a safe, reliable and cost-effective technology that compliments the other trenchless techniques. Pipe pulling is installing a new pipe through the bore hole created by the old pipe and therefore virtually eliminates the issue of utility strikes, making the system inherently safer for operatives and members of the public. The Kobus Pipe Puller is available in two formats. One, KPP300, is modular and the hydraulic winch is powered by its own separate power pack. The other, the KPP400 is mounted on a compact excavator and is driven from the auxiliary hydraulics of the excavator. This minimises the amount of manual handling and operators can be at a safe distance from the machine during operation, improving overall safety. The replacement of steel gas service pipes will benefit from this technology in a variety of ways: (a) less disruption to homeowners, local residents and traffic, (b) reduced risk of utility strikes, (c) ability of replace pipes < 1 in (25 mm) diameter trenchlessly, (d) replace steel pipes with larger diameter PE up to 32 mm, (e) offering up to 80% cost reduction and less time consuming than open cut method.



# TRENCHLESS TECHNOLOGY INTERNATIONAL SEMINAR

2022  
MEXICO

30 November 2022  
Westin Hotel, Santa Fe, Mexico

The Trenchless Technology International Seminar will comprise of comprehensive technical presentations introducing trenchless technology worldwide, local case study presentations alongside exhibits from sponsoring organisations. All catering breaks are held in the exhibition area, affording maximum integration between delegates, sponsors and exhibitors. It will also feature a Networking Reception for the 2023 ISTT International No-Dig.

We are inviting industry support to facilitate these important events, designed to disseminate educational information to delegates in the selected regions. Being a sponsor presents a unique opportunity to evolve your company's status worldwide within the industry. Take advantage of this sponsorship package and contact Paul Harwood at [pharwood@westrade.co.uk](mailto:pharwood@westrade.co.uk) or +44 (0) 1923 723990

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# ELECTRO SCAN EARNS 'TOP PRODUCT OF THE YEAR' AWARD



President Joe Biden's Bipartisan Infrastructure Bill has appropriated US\$65 Billion to the water industry, including US\$15 Billion allocated to States for the 100% removal of lead service pipes.

Electro Scan Inc. announced recently that the company received the 'Top Product of the Year Award' from the elite Environment + Energy Leader Awards programme for its ground-breaking SWORDFISH lead pipe detection product. The company's innovative SWORDFISH solution represents the first solution to accurately and reliably locate lead pipes.

While many cities have chosen to dig one or more test pits to attempt to determine lead pipes, when fully exposed, Electro Scan's SWORDFISH uses low-voltage electric resistance to navigate through pressurised or unpressurised pipes entering through a customer's meter or curb stop.

In 2020, the Water Research Foundation (WRF) determine that no commercially available solution existed to locate and confirm lead pipes, publishing a separate study that same year that indicated electrical resistance was capable of differentiating lead vs. copper pipes.

"We are delighted to bring SWORDFISH to the market," stated Chuck Hansen, Chairman and CEO, Electro Scan Inc. "Especially given the alternative of expensive and messy digging up a customer's yard by potholing or hydro-excavation."

SWORDFISH is currently shipping to cities, consulting engineers, and water utilities, either purchased directly from Electro Scan Inc. or an authorised reseller at a retail price of US\$70,000.

SWORDFISH's ease of operation and interest by water suppliers with 'no known' lead pipes to confirm the absence of lead in customer service lines, SWORDFISH appeals to both large and small drinking water suppliers, with demand ranging from 6,500 to 12,000 units in the United States over the next 3 to 5 years. Additionally, international demand is already coming from the EU and UK water markets where major lead replacement programmes are already underway.

Electro Scan's best product award was announced at the 8<sup>th</sup> Annual Environment + Energy Leader Solutions Summit.

With over US\$15 billion appropriated for states to remove and replace 100% of lead service lines, the inability to properly identify and inventory lead pipes has hampered many cities and water utilities ability to properly plan for required capital expenditures.

According to the Natural Resources Defence Council (NRDC) the number of lead pipes carrying water to homes in all 50 states ranges from 9.7 million to 12.8 million, yet most states do not track this public health threat. >

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Electro Scan's SWORDFISH solution is delivered in ruggedised field-ready containers, including Mobile and Cloud applications and support.

Two states (California and Indiana) provide information about 'partial' lead pipes (i.e. pipes that were made from lead with connections to other materials, like copper, plastic, or steel). States and water utilities have not tracked such partial lead service lines may indicate that million more lead pipes may remain in the ground uncounted.

In the meantime, understatement of the quantity and locations of lead pipe is widespread. For instance, in 2016 it was estimated that Washington, D.C. had 8,900 lead pipes; however, an updated count in 2021 estimated more than triple that number, at 31,974.

### American success story

Electro Scan's Founder and CEO had been spearheading the use of electrical resistance to overcome major flaws in traditional acoustic based sensors that listened for leaks inside of pipes and high-resolution television cameras that attempted to visually detect leaks at cracks and joints.

Holder of seventeen international patents in pipe condition assessment, Hansen started noticing odd readings at joints in asbestos cement (AC) pipes later linked to melted lead that had been used to make AC pipe watertight.

Often located in water mains and pipes measuring from 6 in (150 mm) diameter to 24 in (600 mm) diameter or more, Hansen realised he needed to probes capable of entering pipe diameters as small as 1½ in (38 mm) diameter and able to navigate multiple 90° bends.

While the U.S. Environmental Protection Agency (EPA) issued a complete ban on all asbestos-containing products in 1979, the installation of AC pipe continued in North America through the early 1980s.

"This win is an indication that our expert judges consider Electro Scan's SWORDFISH machine-intelligent lead detection solution a top example of the exemplary work being done today in the fields of energy and environmental management." said Sarah Roberts, Environment + Energy Leader publisher.

In recent years, desktop software, geographic information systems (GIS), and predictive analytic tools were hoped to reliably predict locations of lead pipe.

But, the consistent removal of perfectly good copper and plastic pipes, mistakenly thought to be lead pipe, in addition to incomplete or inaccurate field records has complicated inventory and replacement programmes resulting in many cities to dig-up or expose buried lead pipe to perform legacy magnet or scratch testing.

"We are excited to offer such an innovative solution to safeguard the health of the American public." stated Mike App, Executive Vice President, Electro Scan Inc.

Asked how confident Electro Scan is in determining underground lead pipes using SWORDFISH, App replied, "Very confident."

App continued: "Besides, not only is SWORDFISH Bluetooth-enabled to display real-time readings narrowcast to our company's companion mobile application, we also independently test our probe after each survey using 3M's Lead Test. Since Red Means Lead™, we are certain when we find buried lead pipe."

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## OBITUARY **GRANVILLE BULL** (1942-2022)

It is with sadness that we have to announce that Granville Bull, the former Export Director of Denlok clay jacking pipe manufacturer Naylor Drainage has died.

Granville started initially at Naylor as a sales rep in 1962. Over his 47 years of service, he progressed to Export Sales Director, a role he was tailor-made for. His role was a pioneering one, involving opening up international markets for Naylor, with sales into the Middle East in the 1970's, South East Asia in the 1980's and Eastern Europe in the 1990's being particular high points.

Granville was also responsible for the commercial development of the Denlok jacking pipe. Initially conceived as a UK pipe-bursting product, Granville saw the potential to supply international microtunnelling projects. Early schemes included projects in Vienna and Kuwait, some of the biggest microtunnelling projects ever undertaken.

Granville was a real character - charismatic, enthusiastic, energetic and larger than life. Naylor recognised his major contribution in 2021 when they were awarded a Queen's Award for International Trade, crediting Granville's hard work in establishing an international sales network.

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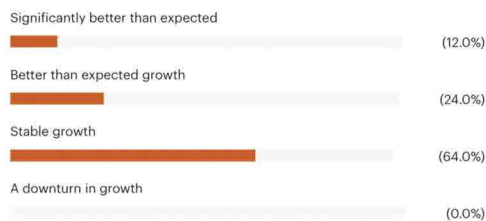
# WATER INDUSTRY NEEDS PEOPLE

Future Water Has Initiated A Regular 'Taking The Pulse Of The Water Sector' Health Check.

This routine 'Check In' will enable Future Water to reflect on the challenges that the industry is facing and work with regulators, utilities and the supply community to explore how best to meet those challenges

Future Water started the check by asking:

"How is business looking? Which of the following are you experiencing?"



Question 2

"Are you experiencing difficulty with recruiting and capacity building?"



Question 3

"Are you continuing to allow your staff to work remotely now that the Covid pandemic is abating?"



Question 4

"Have you changed your working practices permanently to allow for flexible/blended working?"



Melissa Harrison-Crowley, Head of Partnerships added: "Every sector is having trouble in recruiting staff in the UK currently, with over one million open vacancies, there simply are not enough skilled people to fill the jobs. The water sector needs to urgently address its own skills shortages now and in the future by working together, to make the sector a destination employer". To help tackle the issue Caraffi in partnership with Future Water have created #TheWave.

"#TheWave is a movement and action group, set to transform the water sector as a whole into a destination employer. Because careers in the water sector are the best kept secret. A sector with strong purpose and the first to pledge to go NetZero by 2030. Collaboration is the key. We need to do this together. We are overcoming the sector's talent challenges through innovation, collaboration and momentum. Facilitated by Caraffi, with the support of Future Water, our founding members across the sector, we will build and deliver on a plan to overcome talent challenges through innovation, collaboration and momentum. Our mission is to attract diverse talent to choose the water sector."

Paul Horton, CEO of Future Water added: "What is obvious at the present time is that access to people represents one of our biggest challenges. Not only do we need to cover off existing roles but we need to ensure new people come into the industry in sufficient numbers and from a range of backgrounds. I hope that the first of our health checks has highlighted an area that needs immediate attention."

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- Transferring Minimal Excavation Methods, UKWIR/UKSTT/WRC
- Women in Trenchless - Q & A sessions
- JBP Training sessions led by Julian Britton of Wessex Water
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# TRENCHLESS REHABILITATION OF PRESSURE PIPES



Inspecting a  
Saertex liner  
installation.

GRP pipe liners have been established in the wastewater sector for decades. For some years now, they have also been increasingly used for pressure applications for trenchless rehabilitation of drinking water and gas pipes. Continuous maintenance is particularly important for these pipes in order to avoid high economic losses due to water losses or sources of danger due to gas leaks. In the rehabilitation of pressure pipes, GRP pipe liners must meet requirements that extend far beyond the gravity sewer sector. They must withstand a nominal pressure of up to 16 bar in the long term and receive special approvals depending on the country.

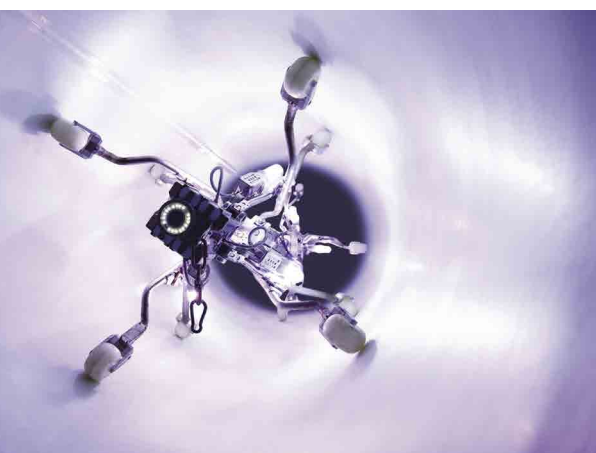
## Trenchless advantages for pressure pipes

Trenchless pipe rehabilitation has numerous advantages over the open cut trench method. This includes a quick and economical rehabilitation of the old pipe with minimal earthworks and traffic disruption. In addition, trenchless technology protects the environment because it causes less dirt, noise and odour. Compared to the open cut trench method, a total of up to 70% CO<sub>2</sub> can be saved. In order to make these advantages available for the pressure sector as well, SAERTEX multiCom® has further developed its SAERTEX-LINER® and brought new liner designs to market maturity that can withstand the high demands over the long term. Therefore, all materials of the GRP pipe liners are adapted to the approvals and meet the technical and, if necessary, hygienic criteria. Both glass fibre fabrics and resin systems were further developed for the new applications and tested for their quality. >





Installing the liner into the host pipe.



Curing the liner using UV light.



Completing the liner end-seal installation post curing.

The resulting liner designs enable installation companies to rehabilitate pressure pipelines for wastewater, drinking water and gas using the trenchless installation techniques established on the market.

To look at the advantages of trenchless rehabilitation using a drinking water pipeline as an example scan the QR code:



#### Worldwide technology drinking water

In Dresden, Valencia and Shanghai, with 100 projects and more than 350 installations, network operators worldwide now rely on SAERTEX multiCom products for the rehabilitation of potable water pipes. In Valencia, Spain, for example, the successful installation of SAERTEX LINERs H2O in late summer 2020 ensured the supply of potable water to over 1.6 million people. The trenchless pipe rehabilitation of the 500 m pressure line is thus the largest project of this kind on the Iberian Peninsula to date. The measurement was necessary due to the urgently needed rehabilitation of the existing DN 600 cast iron pipe. The network operator EMIMET stated that the main criteria for the upcoming rehabilitation work were: cost-effectiveness, sustainable rehabilitation with a technical service life of 50 years, marginal road and ground work, and maximum project safety. The project was thereupon awarded to GRUPO CANALIS, a Spanish company specialising in trenchless rehabilitation, in combination with the SAERTEX-LINER® H2O from SAERTEX multiCom. With the calculation for the statics, on-site inspections of the rehabilitation section, training of the installation team, and support during the installation, the experts of SAERTEX multiCom accompanied all phases of the construction project. Thanks to the close cooperation between all the project participants, the entire renovation project (divided into a total of five sections with lengths between 58 and 128 m) was successfully completed within just 14 days.

#### First gas pipeline with lateral inflows rehabilitated

After the SAERTEX-LINER® GAS received WRc approval, the first gas pipeline with lateral inflows was rehabilitated in spring 2022 in an industrial area in the county of Essex, UK. The rehabilitation of a cast-iron gas pipeline (DN203 and DN305) located there became necessary due to pitting inside. The trenchless pipeline rehabilitation of the total 1,303 m long pressure pipe is the largest construction project of this kind to date and the first project with lateral inflows. For the rehabilitation, the project participants divided the rehabilitation section into 13 sections with lengths between 52 and 175 m. With the calculation of the statics, the inspection of the rehabilitation route, the training of the installation team and the support during the installation, the experts from SAERTEX multiCom accompanied all phases of the construction project.



# PE ELECTROFUSION LIVE HEAD APPROVED BY CADENT GAS

Preparing an  
electro-fused live  
head for insertion.

Steve Vick International (SVI) recently announce that its PE Electrofusion Live Head, a successful NIA project in collaboration with Cadent Gas, has been approved for use.

The new PE Live Head is internally electro-fused, offering a streamlined shape with the Live Head sitting flush with the PE. This allows for easy insertion and makes negotiating bends less challenging. The purpose of a Live Head is to allow gas to flow from the host main into the PE coil during Live Mains Insertion. Both the plastic, and metal designs are the only approved fittings for this.

Although the PE Live Head has been developed to specifically assist with the insertion of 90 mm diameter PE pipe into a 4 in (100 mm) diameter pipe, where the annulus is narrower, it can be used in any size of host main. In an ideal world, with Live Mains Insertion, users would insert 75 mm diameter pipe inside a 4 in (100 mm) diameter main, however with capacity in the mains stretched and with Hydrogen on the horizon, SVI is seeing more 90 mm diameter pipe being inserted into 4 in (100 mm) diameter pipe, hence the development of the new PE Live Head. When inserting 90 mm diameter pipe inside a 4 in (100 mm) diameter pipe, the annulus is 63 mm which is usually the same size as an overland PE bypass or the internal bore of a bypass trailer. Using the PE Live Head reduces waste of a PE bypass or hire charges for bypass trailers. >



Detail of the SVI  
PE Electrofusion  
Live Head.



Using a metal live head for 75 mm pipe in a 4 in (100 mm) diameter or 125 mm in a 6 in (150 mm) diameter is not a problem but for 90 mm in a 4 in (100 mm) diameter, when users screw the metal live head into the PE, it can cause the PE to expand, making the first metre more rigid and more prone to getting stuck during the push. The PE Live Head overcomes this because when installed, the PE does not increase in size, resulting in the leading end being more flexible.

The new PE Live Head was successfully trialled under a G23 before being approved for use by Cadent Gas. Other GDN's are currently trialling the new fitting, including Wales and West Utilities and SGN.

There are many benefits to using Live Mains Insertion rather than more traditional methods and the new PE Live Head and Metal Live Head are fundamental to this process. During Live Mains Insertion for example, customers are off gas for a significantly reduced amount of time as only one purge and relight is required. LMI can also potentially achieve longer pushes which could mean less insertion pits, resulting in less reinstatement costs for the Gas Distribution Networks.

The Electrofusion Live Head on a trial project.

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**Conference  
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# LEAKAGE INNOVATION: MAKING CHANGE TODAY



Sanivar SaniTube liner.

Innovation is often perceived as radical and complex change using futuristic solutions to solve advanced challenges, but a shift in mindset to use proven technologies in every day practices to tackle current issues could transform the rate at which the industry progresses.

Leakage is a well-recognised and established issue within the water industry, and we have a host of businesses and bodies looking at ways that leakage can be reduced. The Northumbrian Water Innovation Festival recently returned to Newcastle and discussions centred on developing 'No-Dig' solutions to usher in a massive reduction in leakage, and while this solution is an extremely favourable one, the technology is likely another five years away. What is truly needed to overcome the challenge of leakage is immediate action.

Leakage is a huge environmental and societal challenge. Within the UK marketplace it is estimated that approximately 2.459 million litres of water leak across England and Wales water mains every single day. The cost of utility street works for water, electricity and gas, factoring in intervention and disruption, costs the UK economy £7 billion every year.

Leakage at this rate represents a failure of industry – water is arguably our most precious resource and paying to treat water that we will never have an opportunity to use is a huge waste of funds and resource.

The problem is also set to worsen over coming years. Demographic changes in the UK will prompt higher demand for water, and the increasing number of housing developments apply further pressure, particularly in the South East of England where water stress is greatest. These changes will be compounded as we see the effects of the shifting climate impact our country in ways we can only begin to predict. With all of this considered, typical BAU practices are not sustainable and will not deliver the long-term outcomes needed to combat the challenges that the sector faces.

The industry-wide target identified at the Festival is to halve leakage by 2050 while simultaneously minimising interruptions and reducing repair costs. With more immediate interventions, this timeline could be much shorter. >



SaniTube  
delivered to site.



Sanivar installations in Matlock, UK  
(above) and Dublin, Ireland (below).

The debate over this issue is centred around responsive and preventative solutions. Water companies are locked into a leak repair mindset as opposed to looking at maintaining the network, and a quantum shift is needed in our thought processes behind leakage solutions. Fixing a pipe leak is a responsive action, however, repairing a leak often only shifts the issue further down the pipeline to another weak spot, deferring the problem to a later date. Pipe lining and spray lining technologies are preventative measures that ensure protection of the entire line and its supply.

Sanivar is one of a handful of companies with technology which is minimal dig whilst futureproofing the strength of our water networks. It would be an opportunity missed to not use these solutions to tackle leakage.

Our stand-alone 'pull in' liners have been used around the world for the trenchless rehabilitation of pressurised water mains. SaniTube is inserted within existing pipes so that should a breakage or leak occur in the host pipe the supply of the resource is not compromised. Our 'minimal-dig' technology is well proven and can accelerate leakage reduction targets.

There are further changes that could also be made for immediate impact. A significant proportion of the operations teams within the water sector are over 50 and will be retiring within the next 20 years. This can be a blocker to innovation as these individuals will often default to tried and tested methods and may not wish to embrace innovation in the twilight of their career, inhibiting innovation in the sector. Encouraging new talent into the industry to explore their fresh ideas and capitalise on their motivation to try new solutions to solve longstanding problems is vital to bring about an industry-wide cultural shift.

No-one should not be frightened of failing on the journey to innovation and allow fear to lull the industry into waiting for future 'Utopian' solutions to solve problems. Innovation is about evolution and changing working practices now and is a vital step along this journey.



# THE ORIGINS OF THE DIE DRAW PROCESS

The Die Draw liner pipe reduction system operating.

“The Die Draw process involves drawing a thermoplastic liner (usually PE 100) through a die at ambient temperature to elastically reduce the diameter of the liner.”

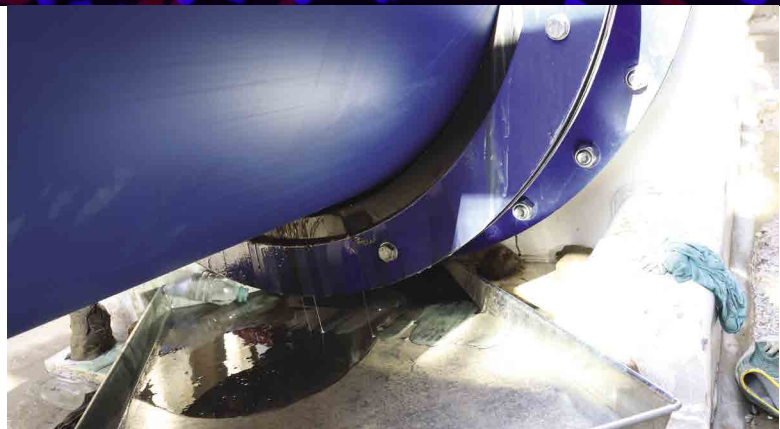
## What is Die Drawing

The Die Draw process involves drawing a thermoplastic liner (usually PE 100) through a die at ambient temperature to elastically reduce the diameter of the liner.

The diameter will be reduced sufficiently so the liner can be pulled through the host pipe. Once the liner has been pulled through, the tension is released and the stored energy in the liner causes it to revert naturally in an axial direction. As the liner reverts it expands diametrically which creates a tight fit on the bore of the host. This reversion is an essential part of the process and is entirely caused by the viscoelastic properties of the thermoplastic liner returning it to its natural state – no additional processes or materials are required.

The Die Draw process has been utilised since the late 1980's and provides a reliable, industry proven method to rapidly install Polyethylene (PE 100) tight fit lining solutions. The materials used for the liners are fully qualified, extensively tested and dominate low pressure water and gas pipelines throughout the UK and Europe.

When correctly engineered these solutions offer a highly controllable installation process that only uses the natural properties of the materials themselves without any need for difficult to control post curing, spraying or post-pressurisation to establish the finished product. Polyethylene liners, when implemented correctly, offer a robust, reliable, environmentally friendly, and cost-effective method of rehabilitating pipelines with greater than 100 years design and life expectancy. >



Inserting the reduced line pipe into host pipes.

## The Origins of Die Drawing

In the 1980s British Gas pioneered the hot Swagelining® process for rehabilitation of its extensive iron pipe network. The hot drawing process proved unreliable and it was realised that there was no need to heat the thermoplastic liner pipe, as the material can be cold drawn at ambient temperature with more consistent results. North West Water (now United Utilities) and British Gas both patented various technologies of drawing a thermoplastic liner pipe through a reduction die at ambient temperature.

In the early 1990s it was realised that the patents were in conflict as they outlined similar processes. British Gas and United Utilities came to an agreement whereby the combined patented technology was managed by Advantica. Advantica licensed specialist contractors around the world to exploit the technology for a yearly fee in exchange for provision of basic design parameters.

One issue with the Die Drawing process is that historically the calculations required to create the engineering solution were extremely complex and as a result the process has been underutilised primarily due to a shortage of process specific expertise.

But that has changed...

Die Draw expertise is now readily available

In 2018 Dr Steve Brogden formed Die Draw Ltd. Over the years he brought together several industry experts with the primary intention of making the Die Draw process readily available to anyone with a suitable pipeline rehabilitation project.

Die Draw Ltd has grown into an award winning technical consultancy with an international client base. The collective 'know-how' across the company is unrivalled with a team comprising of some of the most experienced Die Draw engineers in the world. The ease of access to the process specific knowledge, expertise and combined experience has meant that popularity of the Die Draw process is growing significantly. It is an exciting time for the technology and everyone involved with it.

## The Future of the Die Draw Process

The Die Draw process is an established, industry proven process that maximises post installation flow capacity, maximises lifetime of the pipeline, offers quantifiable savings, has reduced installation timescales, reduces disruption, and importantly, has significant environmental advantages including reduced CO<sub>2</sub> emissions

As pipeline owners and utility companies around the world recognise the benefits, coupled with the readily available 'know how' and experience, the Die Draw process is rapidly re-establishing itself as the logical, go to process for pipeline rehabilitation around the world.



# TRACTO PS40 RESCUES A BRAND NEW DRIVEWAY

House with new drive.

Allen Watson Ltd is an Essex-based No-Dig specialist working in the rail, water, oil, gas, electricity and telecoms sectors. The company was recently asked to look at a domestic drilling project at a large house in Surrey set in acres of fields and approached by a half mile long drive. An expensive, new resin driveway surface had just been laid along the full length of the drive when the homeowner noticed a leak and pooling water. A sewer pipe running under newly laid resin had been ruptured during the works.

Tasked with fixing the problem without ripping up the drive, Allen Watson Ltd contacted TRACTO UK to discuss solutions for renewing the pipe without causing damage to the new drive and minimising damage to the surroundings. The customer also prohibited the use of diggers and tracked machinery on site, so a trenchless solution that necessitated minimal earthworks was also a key requirement. The compact GRUNDOPIT PS40 drilling rig, measuring just over 1 m x 1.25 m, was recommended and duly hired with an experienced operator from TRACTO. The unit provided the capacity to drill through sandy and loamy clay ground conditions adjacent to the drive, whilst operating from a small entry pit.

On arrival at site, the TRACTO team plotted the exact route of the bore hole and located the position of the connection pipe. All utilities had been pre-checked before the job started and the start and exit pits were dug by hand. The PS40 was lowered >

Left: Entry and exit pits adjacent to new drive.  
Right: The rear back is completed with the pipe installed. Ready to remove the PS40 Rig.



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Left: Drilling commences.  
Middle: Connect pipe to drill ready to pull through.  
Right: Pipe emerges in exit pit.

into place to drill 10 m of 125 mm diameter PR Demco pipe and the whole job took just under 4 hours including drilling out, back reaming and pulling the product pipe back. The exit pit was fortuitously located to the right of a fountain on the other side of the driveway.

Scott Shorthouse, Operations Manager at Allen Watson Ltd, has previously worked with TRACTO and is always impressed by the swift and efficient solutions provided saying: "We often work with TRACTO on jobs where we do not have the right equipment in our fleet ourselves. This job, whilst a small one, was nonetheless very important for the customer. It would have cost a fortune to rip up the driveway to fix a sewer pipe. The GRUNDOPIT PS40 provided a quick, cost-effective solution that solved the problem in just half a day with very little impact on the mature front garden. The customer was utterly delighted at the speed of the job and the minimum hassle all round."

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

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A locatable guiding head and a time scale on the rods' position connector allow for directional corrections the easy way when establishing house connections or installing product pipes.

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# LANDMARK BREAKTHROUGH FOR ROBBINS TBM 'BIG TEX'

A crowd gathers as the Robbins TBM breaks through into a shaft at the Mill Creek Drainage Relief Tunnel in Dallas, Texas, USA.

On 25 July, 2022, a crowd gathered as a large Robbins Main Beam TBM, dubbed 'Big Tex', broke through in Dallas, Texas, USA. The machine and its continuous conveyor system, for the Mill Creek Drainage Relief Tunnel, successfully bored 8 km (5 miles) in chalk and shale at up to 498 m (1,634 ft) advance in one month.

"I think when you step back and look at what was accomplished by this team as whole, the overall length and size of this tunnel, the TBM conversion, the everyday grind to keep moving forward, it truly is something to be proud of, professionally and personally. No single individual could reach this milestone. It took a great team of skilled individuals. I am fortunate to be a part of it." said Nick Jencopale, Sr. Project Manager for contractor JV Southland/Mole.

Good advance rates were not the only cause for celebration, the unique project required a planned in-tunnel diameter change of the TBM from its original 11.6 m (38 ft) to a more compact 9.9 m (32.5 ft). The first-of-its-kind conversion process was undertaken 2.8 km (1.7 miles) into the bore and was not done inside a shaft or pre-excavated portal. "The TBM conversion was a unique challenge that we were excited about, and ultimately provided a more efficient method for the desired product compared to the alternative options. Hopefully the successful conversion proved that this option can be considered for future tunnel projects." said Jencopale.

While there were many detailed steps to the conversion process, precision design of the machine was a key aspect. "We started with a smaller machine, then we made a kit or second skin that was slightly larger. Then when the time came, we just took that skin off. It was essentially that simple." said Evan Brinkerhoff, Robbins Field Service Manager. The conversion took about four months and was completed in April 2021. >

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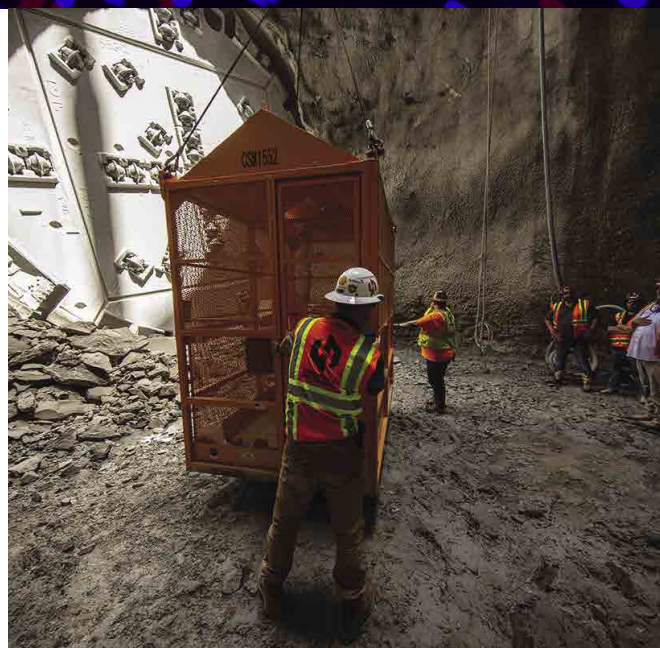




The Robbins Main Beam TBM, dubbed 'Big Tex', broke through on July 25, 2022 in Dallas, Texas, USA.



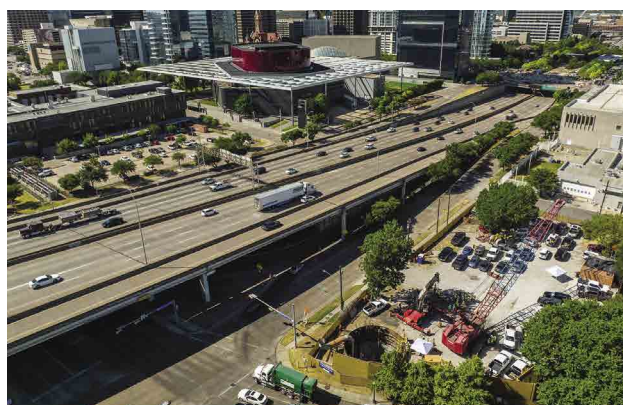
The contractor and other personnel celebrate the milestone breakthrough, which came after an unprecedented in-tunnel diameter change that saw the titanic TBM reduced from 11.6 m (38 ft) to 9.9 m (32.5 ft) in diameter.



The 9.9 m (32.5 ft) Robbins TBM bored up to 498 m (1,634 ft) in one month for JV contractor Southland/Mole.

"The Robbins Main Beam TBM ('Big Tex') performed consistently throughout the duration of the tunnel excavation. There were very minor issues and little overall downtime as a result of the TBM itself," said Jencopale. Due to the relatively favourable ground conditions in much of the tunnel, including low rock strength and low abrasivity, only eight disc cutters were changed during the length of tunnel bored at the larger diameter. At the time of diameter change the full dress of cutters was changed, and since that change only 14 cutters have needed replacing. Crews did encounter some fault zones, and installed rock bolts and wire mesh in the tunnel crown as needed.

With the TBM-driven portion of the tunnel now complete, work can commence to remove the machine from the tunnel and install a final lining. The tunnel is a designated critical infrastructure project for the City of Dallas, providing 100-year flood protection for areas of East Dallas that have experienced severe flooding in the past. Construction work is expected to be complete in late 2024/early 2025.



The view of the breakthrough shaft from overhead: The Mill Creek tunnel is a designated critical infrastructure project for the City of Dallas, providing 100-year flood protection for areas of East Dallas that have experienced severe flooding in the past.

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# SOCIETY NEWS

ISTT News brought to members by Trenchless Works

## A MESSAGE FROM THE CHAIR



Jari Kaukonen, Chair, International Society for Trenchless Technology

Hi ISTT members!

I am happy for two reasons! I will be paying a visit to Poland full of hope that we can find a solution for co-operation between the two parties in Poland to efficiently promote trenchless technology, and increase the number of members there. The second reason is that our International Conference and Exhibition is looking to be a great success. We have almost sold out of the exhibition space, and we have very high-level papers to be presented in the Conference, where I expect about 400 delegates. There will be excellent potential to meet global professionals as well as local ones, people from Scandinavia (Denmark, Finland, Norway and Sweden). The Scandinavian Society SSTT will host its annual meeting on the ship when travelling from Stockholm to Helsinki and there will be so many present that event visitors and delegates have a great opportunity to exchange thoughts with them during the Conference. There is also a lot of interest here in Finland to take part in the Conference. We also have many local companies exhibiting, so visitors and delegates have a great opportunity to discover the high-level products and services originating from north Europe.

We will have a great opportunity for students from around the world to learn more about trenchless, because the Finnish Society (FiSTT) will pay for free student attendance to the 'Student Introduction to Trenchless Technology' where the presenters are world famous professionals in the field. All students from around the world are welcome to the introduction and the exhibition.

The programme for the International No Dig show in Helsinki is now ready and on the web page, visit: [www.nodighelsinki.com](http://www.nodighelsinki.com). We received almost 70 papers from which our professional team selected the best ones for the programme, to be presented from Monday to Wednesday. When visitors and delegates register for the conference on the web page, they can, at the same time, by tickets to the tours, Gala Dinner and the Finnish language conference where they can learn our language! >



# SOCIETY NEWS

ISTT News brought to members by Trenchless Works

“We will have a great opportunity for students from around the world to learn more about trenchless, because the Finnish Society (FiSTT) will pay for free student attendance to the ‘Student Introduction to Trenchless Technology’ where the presenters are world famous professionals in the field.”

We offer two different and very special tours. These are a preconference tour to Tallinn on Saturday 1 October and a post-conference tour underground in Helsinki on Thursday 6 October. I have to thank our organising committee:

Internationally Samuel Ariaratnam, Albert Shou, John Matthews, Kim Staheli, Craig Vandaelle, Paul Harwood, and from Finland Osmo Seppälä, Mika Rontu, Paavo Syrjö, Riku Vahala, Tommi Fred, Timo Kyntäjä, Pertti Leppänen and Jukka Huusko.

Sunday 2 October is reserved for meetings where the ISTT Board meets at 8 a.m., the Trustees meet at 9 a.m. and the Council meeting starts at 10 a.m. Others can have a free day on Sunday. If visitors need any information about things to do, just contact me or the chair of FiSTT Pertti Leppänen ([pertti.leppanen@sitowise.com](mailto:pertti.leppanen@sitowise.com))

Some words in Finnish for to learn before arriving in Helsinki:

Good Day – Päivää

Good Morning – Huomenta

Thank You – Kiitos

Hi – Hei

Where can I find.... – Mistä löytäisin

Cheers - Kippis

It is so easy ..... the pronunciation is a bit different from English but I am sure visitors will learn it very fast.

In Finland our summer season is almost at an end, but the weather in Helsinki at the beginning of October should be nice. Estimates about the temperature are between +10 and +15°C (Average temperatures for this time of the year are usually +12.3°C in September and +6.6°C in October).

I welcome you all to Helsinki and you can feel why we are the worlds happiest people!

With best regards,

Jari Kaukonen

Chair, ISTT





# SOCIETY NEWS

ISTT News brought to members by Trenchless Works

## WELCOME TO ISTT'S 38<sup>TH</sup> ANNUAL NO-DIG CONFERENCE AND EXHIBITION



Paul Harwood, Managing Director of event organiser Westrade Group Ltd, Publisher, Trenchless Works, member of the Executive Sub Committee of ISTT

Welcome to ISTT's 38<sup>th</sup> annual No-Dig Conference and Exhibition. This year's event falls at an important time for underground services in many countries including Finland and across Northern Europe.

The demand for introducing and upgrading services means there is a clear need for installation and refurbishment techniques which can meet the needs of businesses, public sector organisations, utilities, planners, local authorities and more.

These are challenging times – consumers want better services, but they dislike the disruption implementation can bring. They dislike continual installation works, but they want their services to be as up to date and efficient as possible. Finland is a case in point: the country wants to develop its infrastructure but wants to do so in a sustainable manner. Finland and Helsinki in particular have a reputation for great design – design which is both functional and efficient. This theme is reflected throughout the No-Dig Conference and Exhibition as great design is key to achieving effectiveness within the demands set by businesses and end consumers.

International No-Dig Helsinki demonstrates that the No-Dig industry is more than ready to meet the challenges. Technology now offers a full range of solutions which can be matched to specific scenarios and challenges, offering economic and efficient solutions which are also sustainable in the long term. There have been industry studies, research and assessments carried out at University level to inform and move the industry forward in the interests of everyone concerned. The industry is also keen to share practical case studies and examples of new and innovative approaches to No-Dig practice. Whatever challenges your business is facing, Helsinki 2022 is the place to discover your next steps. >

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# SOCIETY NEWS

ISTT News brought to members by Trenchless Works

“International No-Dig Helsinki provides a key platform propelling businesses into the dynamic trenchless market through live product showcases, knowledge exchange and networking opportunities.”



The significance of this particular conference is clearly demonstrated through the organisations and businesses who are here and supporting the event. We would like to thank our Host Society, FiSTT (Finnish Society Trenchless Technology) for their help and involvement, alongside our other supporters FIWA (Finish Water Waterworks Association) and INFRA (Infra Contractors Association in Finland).

We are also proud to have Picote as Diamond Sponsor, Geonex as Platinum Sponsor, Lannen Alituspalvelu as Silver Sponsor and Trelleborg as Bronze Sponsor of this event along with Impreg are City Hall and Gala Dinner Sponsor. We are pleased to welcome all the major industry players, experts and suppliers in Trenchless Technology to Helsinki, whether they are exhibiting or taking part in the conference sessions.

This event will unite the trenchless community and provide leading-edge innovation, knowledge, and business opportunities, whilst promoting a more sustainable environment around the world. I hope you enjoy and fully benefit from the next few days.

## The Event

This year's exhibition and conference will be a highly influential event for the trenchless market and provide a unique platform for the global industry.

Over the three-day event No-Dig Helsinki will give visitors and delegates the opportunity to engage with all areas of the No-Dig industry through a variety of interactive and informative ways. >

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# SOCIETY NEWS

ISTT News brought to members by Trenchless Works



## The Exhibition

The exhibition space at No-Dig Helsinki has been designed to give maximum access to the latest frontline technology and solution providers. This is the place to experience No-Dig solutions and technology up close, as well as meeting the people who are making it their business to ensure No-Dig technology is better than ever.

This is effectively a one stop shop to see and evaluate a wide range of equipment and services which will truly demonstrate trenchless technology and its capabilities.

Among the displays will be Horizontal Directional Drilling equipment (HDD), pipe rammers, pipe bursters, pipe inspection, CCTV surveying, pipes and lining materials, cleaning equipment, consulting services – and much much more.

## The Conference

The Conference programme, brought together by ISTT and FiSTT includes papers from industry leading experts, practitioners, and analysts. Featuring a multi-track programme, organised over all three days, attendees will hear from a wide variety of specialists, drawn from industry and academia. These sessions will combine research, opinion, and practical case studies to offer a critical insight into best practice and innovation in today's No-Dig industry.

Both local and international speakers are taking part in the conference bringing experience and knowledge from a wide variety of disciplines and industries. The ideas and experiences from each will give attendees a chance to learn new and consider new ideas and practices which can be transferred to their own businesses. >

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# **INTERNATIONAL NO•DIG** **2022**

**HELSINKI**  
THE 38th INTERNATIONAL NO-DIG

**Conference and Exhibition  
3-5 October 2022**

Messukeskus Helsinki Expo and  
Convention Centre, Finland



**Conference  
Programme  
announced**

**International No-Dig Helsinki is the major annual international gathering for trenchless technologists to meet and discuss the latest industry developments.**

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- An opportunity to display and demonstrate products to a highly targeted audience
- Ensure your brand has a profile in the presence of the industry's premier decision makers
- Take a leadership position and play a major role within the Trenchless/No-Dig sector
- Be seen at the region's only industry specific exhibition and conference with a proven track record that truly demonstrates Trenchless/No-Dig technology and its capabilities
- Be seen alongside influential supporters representing Europe

**To be seen amongst the worlds leading providers and show your innovations, book a stand at International No-Dig Helsinki.**

Contact Paul Harwood at [pharwood@westrade.co.uk](mailto:pharwood@westrade.co.uk) or +44 (0) 1923 723990

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# SOCIETY NEWS

ISTT News brought to members by Trenchless Works



The Conference kicks off with a programme curated by the Finnish Society for Trenchless Technology (FiSTT). This will be the national event for the country's No-Dig industry and will feature discussions, solutions and innovations from trenchless projects and research across Finland.

Among the themes discussed will be new technology which can inspect and classify network conditions and how climate impacts on different renovation techniques – an increasingly important consideration given recent weather conditions.

Conference sessions over the following two days include the promotion of trenchless technologies and detailed discussions of specific No-Dig techniques. The sessions include speakers from around the world including Arizona State University (USA), National Chung-Hsing University (Taiwan) and Birmingham University (UK). There are contributions from Taipei Water Department, Tampere University and Primusline specifically on water-based projects, with further insights from businesses including Picote UK Ltd, Sitowise Plc and Watershed Associates.

## [Kia Aksela - FiSTT & Partner, Wise Environment: The FiSTT Conference](#)

We are proud to have the Finnish National No-Dig Event on 3rd October as a part of the International No-Dig 2022 Helsinki Exhibition and Conference. The programme for this event has been specially designed to focus on the latest findings and technical advancements around the country.

The first theme under discussion at the Conference concerns the enhancement of sustainable network lifecycle management. As part of this we will be looking at digitalisation, including a unique solution where data is transferred from the field to operators' systems. We will also be looking at technology which can inspect and classify a network's condition. There will be a case study about the climate's impact on different renovation techniques. The first theme of the day will therefore feature discussion of the newest solutions and advancements in our field while the second part will focus on issues to be improved in rehabilitation planning and renovation work. >

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# SOCIETY NEWS

ISTT News brought to members by Trenchless Works



As far as renovation work is concerned, a key question is the true length of the lifecycle for a network. One of our panel discussions will be an honest debate on why some projects do not succeed. By sharing these experiences we can help to support success in the future. We will also be looking to share our experiences on implementing high quality practices which fill the lifecycle demands.

The presentations include a case study of progress in systematic inspection of networks with new technology helping to categorise different parts of the networks as being in good condition, or needing to be followed up – demanding acute, detailed inspection and repairs either by excavation or by trenchless technology. This case study will show an example to all network operators of the need to take proactive and responsible actions.

Alongside this will be a presentation from a project planned and coordinated by the Finnish Society for Trenchless Technology (FiSTT) focussing on a unique solution for data transfer from the field straight to the operators' network information system. The solution is the first of its kind and is based on open REST API. This will be followed a presentation coordinated by FiSTT itself focussing on the lifecycle management of a sustainable network – the idea here being that resources are respected and used in a more responsible way. The final presentation is a case study which compares the climate effects between excavation and trenchless technology projects. Something we should routinely consider in every project in terms of lifecycle impact.

Can there be enough quality checks and considerations in infrastructure projects? With high and standardised expectations and seriously taken responsibility the answer is no. So, in the second theme the presentations cover the role of experts on different phases of the projects as well as case studies on projects in the trenchless technologies in the water supply and in sewer network rehabilitations. At the end of the second >

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Part of the Trenchless Middle East Portfolio

## CAIRO

## SEPTEMBER 2023



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Email: [pharwood@westrade.co.uk](mailto:pharwood@westrade.co.uk) or [shillyard@westrade.co.uk](mailto:shillyard@westrade.co.uk) Telephone: +44 (0)1923 723990



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istt.com

# SOCIETY NEWS

ISTT News brought to members by Trenchless Works



“The show is packed with expert led content, knowledge leaders and all the latest products from the world’s leading trenchless technology companies. The show has captured the imagination of all the high-profile decision makers from private and government sectors.”

theme a novel solution for network rehabilitation with trenchless technology is presented. In the panel discussion we challenge the experts from operators, consultants, device manufacturers, material suppliers and contractors to share their knowledge from their point of view on how they ensure high quality and their tips how to avoid risks and deal with failures – straight and honest talk by real committed masters of our field.

## The Student Programme

We are very proud that this year’s No-Dig Conference and Exhibition includes a Student Programme, aimed at informing and developing the skills and knowledge of young engineers. As part of this programme there will be a series of Trenchless Technology masterclasses offering students access to the basic principles of key technologies such as Microtunnelling, HDD, Pipe Ramming, Auger Boring and Pipe Bursting. There will also be sessions on more established rehabilitation methods such as Cured in Place Pipe, Spray Lining, Spiral Wound Lining, Fold and Form and Close Fit Lining.

Students will also learn about vital supporting technologies including geotechnical and condition assessment surveys as well as understanding more about the economic and environmental benefits of this technology.

The programme, based on the ISTT Masterclass concept, will end with a hosted tour of the exhibition to see first-hand the latest innovations in technology and service provision.

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Paul Harwood at [pharwood@westrade.co.uk](mailto:pharwood@westrade.co.uk) or +44 (0)1923 723990

Stuart Hillyard at [shillyard@westrade.co.uk](mailto:shillyard@westrade.co.uk) or +44 (0)1923 723990

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





# AFFILIATED SOCIETIES

ISTT Affiliated Societies around the world



## Austrian Association for Trenchless Technology (AATT)

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## China Society of Geology - Trenchless Technology Committee (CSTT)

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## Chinese Taipei Society for Trenchless Technology (CTSTT)

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Web: www.ctstt.org.tw/en\_index.asp



## Czech Society for Trenchless Technology (CzSTT)

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Email: office@czstt.cz  
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## Danish Society for Trenchless Technology - NoDig Infra (DKSTT)

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Email: tina@juul-consult.dk  
Web: www.nodiginfra.dk/nodig-infra/  
startside



## Finnish Society for Trenchless Technology (FISTT)

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## Iberian Society for Trenchless Technology (IBSTT)

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## Latin American Society for Trenchless Technology (LAMSTT)

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## The Russian Society Trenchless Technology Association (RSTT)

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## Southern African Society for Trenchless Technology (SASTT)

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## Trenchless Romania Club

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## Turkish Society for Infrastructure and Trenchless Technology (TSITT)

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Web: www.akated.com



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Web: www.ukstt.org.uk



# NASTT SOCIETY NEWS

[nastt.org](https://nastt.org)

NASTT News brought to members by Trenchless Works



Matthew Izzard, Executive Director,  
North American Society for Trenchless  
Technology (NASTT)



Early last year the NASTT Board of Directors voted to amend our Vision Statement with the addition of one important word – networking: 'To be the premier resource for knowledge, networking, education and training in trenchless technology.'

It is not just imparting our knowledge of trenchless technology that matters, but also how. On a global scale we have recently witnessed and learned the true value in human interaction. Being unable to provide many of those opportunities directly we looked at ways to still provide educational sessions. For example, one of our initiatives in the absence of attended training has been to provide our courses on a virtual basis, which enabled many people to access education for a range of trenchless technologies where they had been unable to before. Being able to join different sessions on a monthly basis the benefits of saving time out of the office or site, travel savings and accessibility has provided accredited NASTT Good Practice training to more people than ever before.

The drive for greater outreach was celebrated in August last year with the formation of the NASTT Mexico Chapter. An initial group of five dedicated volunteers formed a Board and now has a strong growing membership. This has been supported by Mexico City proudly hosting the ISTT International No-Dig Show in 2023 and the launch of Spanish language Good Practice courses, publications and membership magazine. This has culminated in the Trenchless Technology International Seminar in Santa Fe, Mexico City, providing technical presentations and case studies later in November this year.

The role and responsibility of expanding the knowledge and awareness of the capabilities of our industry lays with all of us. Providing the decision makers with a good understanding of no-dig capabilities, method selection, design and bid considerations to final delivery is one of the primary objectives of the NASTT No-Dig Show, the other being engaging the interest of the future - students. Each year places are awarded to successful applicants to attend technical sessions, exhibition hall, networking receptions and provide accommodation through both the Municipal & Public Works Scholarship and Student Scholarship programs. This has enabled savings of dollars, time and environment on projects throughout North America and we have also expanded this program to include the NASTT No-Dig North covering the Canadian markets.

But perhaps most valuable of all are the people we meet and friendships that we make providing support to others. NASTT is proud to be an active member of the ISTT family and the many connections we have throughout the world. We look forward to meeting you at International No-Dig in Helsinki where we continue to learn, share and develop and network trenchless technology together. You just can't beat seeing a smile and saying 'hei!'

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No-Dig North is owned by the North American Society of Trenchless Technology (NASTT).  
For more information about NASTT or other NASTT events, please visit [nastt.org](https://nastt.org).



# UPCOMING CONFERENCES, COURSES & EVENTS

## 2022

### AUGUST 24-25

New Installation Methods Good Practices Course  
Virtual

### SEPTEMBER 9

Municipal Sewer Grouting Good Practices Course  
Virtual

### SEPTEMBER 22

Gas Distribution Good Practices Course  
Virtual

### OCTOBER 17-19

No-Dig North 2022  
Toronto, ON

### OCTOBER 19

Trenchless Elevated 2022  
West Valley City, UT

### OCTOBER 26-27

CIPP Good Practices Course  
Virtual

### NOVEMBER 16-17

HDD Good Practices Course  
Virtual

### NOVEMBER 17

Trenchless Seminar (name subject to change but let's use this for now)  
Mexico City, MX

### DECEMBER 14-15

Pipe Bursting Good Practices Course  
Virtual

## 2023

### APRIL 30 - MAY 4

NASTT 2023 No-Dig Show  
Portland, Oregon

## 2024

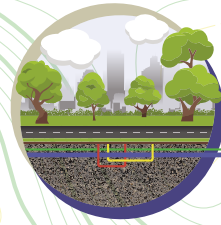
### APRIL 15-17

NASTT 2024 No-Dig Show  
Providence, Rhode Island

## 2025

### MARCH 30 - APRIL 3

NASTT 2025 No-Dig Show  
Denver, Colorado



**GREEN ABOVE.  
GREEN BELOW.**

# THE NASTT 2023 NO-DIG SHOW MUNICIPAL & PUBLIC UTILITY

## Scholarship Program

The NASTT No-Dig Show Municipal & Public Utility Scholarship Award has been established to **provide education and training** for North American municipalities, government agencies and utility owners who have limited or no travel funds due to restricted budgets.

Selected applicants will be awarded **complimentary full conference registration** to the NASTT 2023 No-Dig Show in Portland, Oregon, April 30 – May 4, 2023. One day conference registrations will also be available. Registration includes **full access to all exhibits and technical paper sessions...** all you have to do is get yourself to the conference! Selected applicants will also be eligible to receive **overnight accommodations**. Selection based on responses to the application as well as need.

**APPLY TODAY! Application deadline is November 1, 2022.**



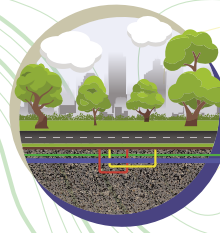
NETWORKING EVENTS | EXHIBIT HALL | TECHNICAL SESSIONS

Visit **[nodigshow.com](http://nodigshow.com)** to learn more



*The No-Dig Show is owned by the North American Society for Trenchless Technology (NASTT), a not-for-profit educational and technical society established in 1990 to promote trenchless technology for the public benefit. For more information about NASTT, visit our website at [nastt.org](http://nastt.org).*





**GREEN ABOVE.  
GREEN BELOW.**

# Save the Date

**NASTT 2023 NO-DIG SHOW | APRIL 30-MAY 4 | PORTLAND, OR**

## Educational & Networking Opportunities Await

The No-Dig Show is the trenchless industry's flagship educational and networking event. Each year No-Dig attendees are privileged to the best industry-related content and access to the leading companies and individuals in trenchless technology.

- Technical papers & presentations
- Large exhibition hall
- Specialized trenchless training courses
- Engaging networking programs & events
- Prestigious industry related awards

Visit **[nodigshow.com](https://nodigshow.com)** to learn more



**NETWORKING EVENTS | EXHIBIT HALL | TECHNICAL SESSIONS**



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# SOCIETY NEWS

[ukstt.org.uk](https://ukstt.org.uk)

Society News brought to members by Trenchless Works

## HELLO FROM THE CHAIR



Dawn Greig, Chair, UKSTT



Lynn MacLachlan – Associate Director  
for UKSTT



Hello everyone,

The countdown is on! Soon we will meet again at No-Dig Live, I don't know about you, but I am very excited! No-Dig Live is the meeting place for the entire trenchless community and there is a lot of catching up to do.

The UKSTT have been working hard in the background to bring a fantastic daily conference programme to the show. Registration is free so please sign up using this link <https://www.ukstt.org.uk/no-dig-live-2022/>.

I am also very much looking forward to celebrating your successes at our Annual Awards & Gala Dinner. Whether you were shortlisted or not, or even if you didn't get around to putting together a submission, this night is also for you!

There is so much to celebrate. It is such an honour to recognise the impact on the industry that all of these companies and individuals make.

As you may have heard, it will be a James Bond themed evening, so expect Martini cocktails, shaken not stirred, and rousing live music from the London Showband. The British quizzer, comedian, doctor & broadcaster Paul Sinha will be our after dinner speaker and my co-host for the evening - what an incredible line up!

See you soon...

Dawn x

SPONSORED BY:





# UKSTT GALA DINNER & AWARDS CEREMONY

**PARKINSON'S<sup>UK</sup>**  
CHANGE ATTITUDES.  
FIND A CURE.  
JOIN US.

**14th SEPTEMBER 2022**

**The Atrium, Peterborough Arena, Peterborough, PE2 6XE**



- Co-Host and After Dinner Speaker **PAUL SINHA**
- Champagne Reception
- Lavish 3 course meal
- Spectacular live entertainment from the London Showband

**CLICK HERE TO RESERVE YOUR TICKETS**

**[www.ukstt.org.uk](http://www.ukstt.org.uk)**

**07745781500**

# SOCIETY NEWS


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## IAN VICKRIDGE



Ian graduated with a degree in Civil Engineering from University College London in 1968. Following that, his first post as a civil engineer was with Sir William Halcrow in Vancouver. Ian returned to the UK in 1970 and worked on the design and site supervision of sewers and sewage treatment works before taking a MSc degree in Public Health Engineering.

Ian worked abroad in Hong Kong, Saudi Arabia, and Singapore for several years before returning to the UK in 1984 when he took up a post as a Senior Lecturer at Manchester University, where he taught Water and Environmental Engineering and undertook research and consultancy in a variety of projects related to Trenchless Technology, including acting as an expert witness in several cases. It was during this period that he first became interested in Trenchless Technology, partly as a consequence of attending the first No Dig Conference and Exhibition in 1985. Ian remained in that post until 1999 when he started his own consultancy specialising in Trenchless Technology. Much of the work he was doing at the time was in Hong Kong and so it was that in 2004 he joined Black & Veatch in Hong Kong as a Technical Director leading a team mainly involved with the trenchless rehabilitation of water mains and sewers until he retired from there in 2011 to return to UK.

Ian joined ISTT after the first No Dig conference 1985 and, when it was decided to set up the UKSTT in 1993, he became a member of the first management team of the society and negotiated for the UKSTT office to be based within the university. Ian later became the Technical Secretary for a period and has also been Chair and Vice Chair of the Society. Apart from the time he spent in Hong Kong Ian has been a member of UKSTT since its inception in 1993. Whilst in Hong Kong he was a member of the China Hong Kong Society (CHKSTT) and also Chair of that Society for several years. Ian was present at the start of the trenchless movement in the UK back in the 1980s and carried out research into social costs associated with open trenches and compared that with the social costs of trenchless methods. Bringing the social costs associated with increased traffic disruption to the attention of the community was one way by which trenchless methods were more readily accepted and paid for. More recently Ian sees one of his personal achievements as giving technical leadership and direction to Black & Veatch's involvement in Hong Kong Water Supplies Department's major programme of water mains replacement and rehabilitation and being able to pass on information on new trenchless methods to the project team to enable the problems of pipeline deterioration and leakage to be solved, was very satisfying.

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# SOCIETY NEWS


[ukstt.org.uk](http://ukstt.org.uk)

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## DAWN GREIG UKSTT CHAIR LOOKS BACK ON HER TENURE



Dawn Greig,  
Chair, UKSTT

First of all, congratulations on your time as Chair of UKSTT. It would be interesting to know what you feel about your tenure.

**Q:** What does it feel like to have been in the 'Hot Seat' for such a long period given the dramatic circumstances of the past few years, given that it has been a significant part of your working life?

It has been a challenge at times, that is undeniable. We had a Council meeting at the beginning of April 2020, just after the first lockdown, over Zoom. Although we all knew that the future was unpredictable, we had an obligation to our membership. From that, we put together our 'new way of working' and introduced a range of online events, with the help of many industry experts. Virtual meetings enabled the Council to achieve more in a short space of time and that is something that we have adopted for our sub-committee and working group meetings ever since. The third 'bonus year' as Chair allowed me to progress initiatives in person, which has been incredibly useful.

**Q:** What has this time at the helm meant to you personally (and/or to your family)?

I have thoroughly enjoyed my time as Chair of the UKSTT. The time commitment has been tricky at times, especially with a very busy day job, but it has been very fulfilling. My family are accustomed to me working long hours but they have always been very supportive. I have three daughters, so becoming the first female Chair was particularly meaningful and I hope that it proved that gender is no obstacle.

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Dawn enjoying a Gala Dinner and Award Ceremony during her time as UKSTT Chair.



### Q: What was your background/experience originally and what brought you into the trenchless industry?

My background is largely in senior management in very different industries, including gaming, travel and publishing. I was working on marketing with Katja Lindy-Wilkinson, now CEO of Picote Solutions, who at the time was the Marketing Director for Picote Oy, our contracting company in Finland. I helped her launch Picote Solutions, taking the trenchless innovations which had been created for our own services teams, to a global market.

### Q: What has been the most challenging aspect of your tenure as Chair of UKSTT and what has this done for your trenchless experience over those years?

Truthfully, the most challenging thing has been finding enough hours in the day to do everything that I would want to do in my time as Chair, do not get me wrong, three years is definitely long enough!

### Q: What do you see as being your own greatest personal achievement with UKSTT?

That is a very good question. I suppose I do not see anything as a personal achievement, we are very much a team at UKSTT, everything that we have accomplished in the last three years has been down the entire Council working together with Lynn and Linda to hopefully add value to our members and educate the wider community about Trenchless Technologies.

### Q: Who has given you the necessary support for your time 'in charge'?

Everyone has been very supportive of my time in office, particularly my company Picote Solutions and CEO Katja Lindy-Wilkinson, who has been very understanding of the time commitment. All of the Council have been fantastic. Julian Britton of Wessex Water, has been very encouraging and helped me so much throughout my time as Chair, as has Iain Naismith of IKT. It would truly take me all day to list all of the people who have helped me in my time as Chair! I would say that Lynn Maclachlan has been the linchpin, helping keep me on track from day one, it would really have been very chaotic without her patience and cheerful guidance.

### Q: What do you currently see as the UKSTT's and the industry's most urgent challenges and where do you hope to see the UKSTT's place in trenchless industry in the next 10 to 20 years?

Climate change is at the forefront of everyone's minds, especially given recent record-breaking temperatures in the U.K. I would say reducing carbon emissions is a major challenge, with high priority. I would like to see UKSTT working with Government bodies to make trenchless technology the first choice wherever possible, leading the way in the trenchless industry with the help of our Patrons and members.

### Q: Is there anything else UKSTT/trenchless related you would like to mention that we have not covered already?

The UKSTT works relentlessly for its members. Our mantra is 'Think Trenchless First'. The more support that UKSTT receives, the more it can achieve within the industry, for the good of everyone. Anyone who wants to get involved, or learn more, please get in touch, let us work together!

Trenchless Works would like to thank Dawn for her time and effort in assisting with the preparation of this interview and for the great effort that has been undertaken over her years as UKSTT Chair. We offer much good luck and fortune for the future.

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# SOCIETY NEWS


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## WHAT IS PARKINSON'S?

**PARKINSON'S<sup>UK</sup>**  
**CHANGE ATTITUDES.**  
**FIND A CURE.**  
**JOIN US.**

“Together we will find a cure and improve life for everybody affected by Parkinson's. We're close to major breakthroughs. Funding the right research into the most promising treatments, we get closer to a cure.”

At the UKSTT Annual Dinner and Awards Ceremony that is taking place during the forthcoming No-Dig Live event it is usual for the UKSTT Chair to select a charity to which attendees are invited to contribute. Known as the Chairmans Choice, this year the charity being supported is Parkinson's<sup>UK</sup>.

Not enough people understand what it's like to live with Parkinson's. They don't know it's a serious condition. They don't realise that treatments are limited and that there is no cure.

There are over 40 symptoms of Parkinson's. We need to get them all understood. People experience a huge range of symptoms from pain and stiffness to problems with sleep and mental health. Everyone's experience is different, and it can have a massive impact on everyday life.

Parkinson's is a progressive neurological condition. This means that it causes problems in the brain and gets worse over time.

Around 145,000 people live with Parkinson's in the UK. And it's the fastest growing neurological condition in the world.

Our vision, mission and values

Together we will find a cure and improve life for everybody affected by Parkinson's.

We're close to major breakthroughs. Funding the right research into the most promising treatments, we get closer to a cure every day.

Until then, we're here for everyone affected by Parkinson's. Fighting for fair treatment and better services. Making everyone see its real impact.

People with Parkinson's, scientists and supporters, fundraisers and families, carers and clinicians, all working side by side. Impatient for change, we're taking a stand, speaking out, chipping in, and playing our part.

Our strategy for 2020-2024 sets out our approach to making this vision a reality.

SPONSORED BY:



# UKSTT EXHIBITING AT NO-DIG LIVE 2022

## CONTACT US



[www.ukstt.org.uk](http://www.ukstt.org.uk)



07745781500



[admin@ukstt.org.uk](mailto:admin@ukstt.org.uk)



### UKSTT STAND

Network with clients and chat with colleagues in a relaxed and friendly environment



### CREAM TEA

Lynn & Linda would love for you to join them for a truly delicious Cream Tea



### CPD POINTS

The conference programme qualifies for CPD points



2022  
NO-DIG LIVE

## See us on Stand 22

13-15 September Peterborough

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

Organised by Westrade Group  
**TRENCHLESSWORKS**



Supported by UKSTT





# The UKSTT Awards 2022

in Association with Westrade

## SHORTLIST ANNOUNCED

**Date: Wednesday 14 September**

**Time: 7pm**

**Venue: Atrium Arena, East of England Arena, Peterborough, PE2 6XE**

**Dress Code: Black Tie Preferable**

Following the success of last year's event, UKSTT is pleased to once again be holding their annual Gala Dinner and Awards Ceremony alongside No-Dig Live 2022 at the East of England Arena & Events Centre in Peterborough on the 14 September 2022.

This year's event has a James Bond theme, and we are delighted to announce that the energetic and gifted London Showband will be there to entertain at the end of the evening with a selection of James Bond movie songs.

Hosting the evening, alongside UKSTT's Chair Dawn Greig, will be Paul Sinha. Paul is a doctor and comedian but is perhaps best known as the Sinnerman on the hugely popular ITV quiz show 'The Chase'.

Get your team together, rally support and join everyone by booking a table to this prestigious event! Rejoice in your hard work and efforts throughout the year and applaud your fellow colleagues, as we take up the challenge to acclaim this event to be our best yet!

To reserve a table, please contact Chantel Avis  
cavis@westrade.co.uk



SPONSORED BY

Awards Ceremony: 14 September

in Association with Westrade

UKSTT would like to say a massive thank to all of this year's Award sponsors including:

Platinum Sponsors



**RSM Lining Supplies**  
CHOICE AND TECHNOLOGY



Gold Sponsors



**PROKASRO**

**TRACTO**

Award Category Sponsors



Drinks Reception Sponsor



## THE SHORTLIST

### NEW INSTALLATION – HORIZONTAL DIRECTIONAL DRILLING (HDD)

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**RSM Lining Supplies**  
CHOICE AND TECHNOLOGY



**GMAC UTILITIES LTD, AG WILSON CIVIL ENGINEERING, CALEDONIA WATER ALLIANCE (MORRISON UTILITY SERVICE AND AECOM JV FOR SCOTTISH WATER) & HOWLAND ASSOCIATES**

#### OBAN WATERMAIN

Gmac Utilities Ltd undertook the installation of twin 355 mm sleeves for an under-track crossing in the picturesque western Highland town of Oban for AG Wilson Civil Engineering Ltd. Not only was the terrain difficult, but exceptional hard ground conditions with high iron content created additional challenges which Gmac Utilities overcame. Working from the confines of a small working area within the grounds of a local school created plenty of community interest and subsequent engagement with the school pupils.

Caledonian Water Project Manager Terry O'Bryne quoted about the scheme "Pretty much achieved here what others considered impossible. It was border line or just over it. Not many understood the complexities and risk involved, there was a few sleepless nights for myself (or sleepless days and nights as it was day shift back-to-back shift nightshift for me !)".



## Challenges ▸ HDD 3 Duct stringing

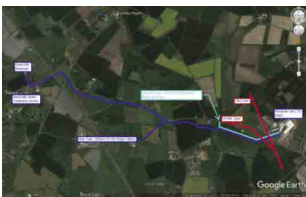


## PETER MCCORMACK & SONS LTD, KIER UTILITIES & RAIL & UK POWER NETWORKS

### LITTLE BARFORD TO EATON SOCON – A CABLE ROUTE THAT, ‘COULD NOT BE BUILT’

Peter McCormack & Sons - McCormack Drilling was commissioned by Kier, working on behalf of their client UKPN, to undertake the design & installation of the HDD sections for the Little Barford 132 kV Switchgear Replacement Project.

The overall works required the replacement of the Air Insulated Switchgear (AIS) with new Gas Insulated Switchgear (GIS) at Little Barford and to establish 3<sup>rd</sup> Super Grid Transformer (SGT) connection with a single 132 kV cable route between Little Barford and Eaton Socon. With careful planning and delivery, the project was successfully energised in October 2021.



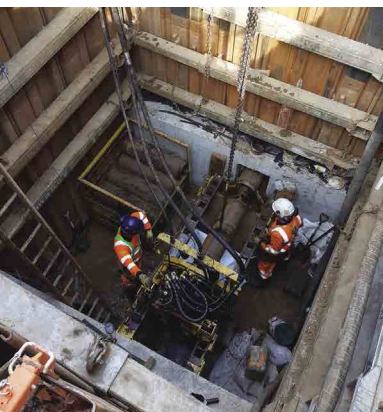
## ONSITE PIPELINES, JMH DRILLING, AMEY CONSULTING & SOUTH STAFFS WATER

### ROXANE UK LTD SEEDY MILL TWIN PIPELINE & HS2 DIVERSION

Roxane Ltd via South Staffs Water commissioned OnSite to design and build a new twin 180 mm clean water pipeline 4.5 km from Seedy Mill WTW to their bottling plant at Wood End Lane, Lichfield crossing both WCML, A515 and HS2, with extensive use of HDD as preferred installation method.

OnSite had to engage and collaborate with a multitude of stakeholders including a very demanding French owned water bottling company

A final complex drill of 5 pipes through a single 860 mm bore up to of 340 m at depths of 10 m was added to the scope once HS2 had confirmed their route.



## NEW INSTALLATION – TECHNIQUES OTHER THAN HDD

SPONSORED BY  
**TRACTO**

### ALLEN WATSON LTD & CAPPAGH GROUP OF COMPANIES

#### GRAYSHOTT ROAD LONDON SW11 5UE FLOODING PROJECT

The installation using Guided Auger Boring techniques of a new sewer for the prevention of flooding in the Battersea area in London, approximately 1 km from Clapham Junction

Station. A No-Dig solution was vital because the site is bound by residential housing on all sides which typically comprise 2 and 3 storey terraced buildings with basements. The small footprint of the Guided Auger Boring Technique made this an ideal solution to the challenges of the site.

## PIPE REHABILITATION – CURED IN PLACE PIPE LINING (CIPP)

SPONSORED BY  
**PROKASRO**



### TERRA SOLUTIONS LTD & NORTH YORKSHIRE COUNTY COUNCIL

#### HOLYWELL CULVERT RE-LINING WORKS, SKIPTON

UV-Cure Rehabilitation of 21 m of an existing 'non-standard' steel-corrugated 1,500 mm culvert at Holywell bridge for North Yorkshire Co. Co. to include a two metre 1,500 mm extension on both culvert ends using composite steel reinforced technology to existing overhanging slabs. The extensions were UV-lined also. The Project required extensive and considerate over-pumping, construction of new upstream and downstream headwalls finished with indigenous stones for blend aesthetics, filling and grouting of voids, traffic management, pollution control arrangements, detailed design, ecological & other environmental reports, as well as all approvals, reports, temporary works & shutter designs, surveys and material selection.



### MORRISON ENERGY SERVICES (MES), CADENT GAS LTD & IWJS

#### CURED IN PLACE PIPE GAS AT LONDON

Cured in Place Pipe (CIPP) has revolutionised the way we think of Tier 1, 2 and 3 gas mains replacement and is now set to do the same for service connections. The widespread implementation of this innovation will save thousands of working hours, minimising disruption for the public and enabling us to reach areas which were previously unreachable, minimising disruption to the public as well as our carbon footprint.

CIPP provides a new technological solution to maintain network integrity, avoiding open-cut extraction. This isn't remediation, but (due to the low wall thickness of the pipe) a full size-for-size replacement strategy.





## CLANCY GROUP & ANGLIAN WATER

### COTTENHAM REHABILITATION SCHEME 2021 – 2022

Clancy undertook urgent rehabilitation works on behalf of Anglian Water to a degrading sewer network in Cottenham, Cambridge, a busy village for local traffic and those avoiding surrounding major routes.

The degradation of the sewer was so severe that time was of the essence to prevent a catastrophic failure.

We used an innovating lining solution, the first of its kind in the UK, to vastly reduce the impact of the works which involved considerable and ongoing liaison with external stakeholders and over 2,000 local residents.

Our approach enabled works to be successfully completed ahead of the expected time frame.

## PIPE REHABILITATION – TECHNIQUES OTHER THAN CIPP

SPONSORED BY



### DANAHER & WALSH (CIVIL ENGINEERING) LTD, ANGLIAN WATER SERVICES LTD & WILKINSON ENVIRONMENTAL LTD

#### 4 M DEPTH COLLAPSED SEWER REPAIR, GRAND PARADE, SKEGNESS, LINCOLNSHIRE

A tricky sewer repair dubbed 'mission impossible', involved the collapse of a 300 mm diameter sewer, 4 m below an entertainment complex in the busy seaside resort Skegness. To add to the challenge, the pipe was completely full of rubble, brick, paving stones and metal debris.

Following bench tests, a system was devised using a resin to bind the debris together, allowing it to be robotically cut from the pipe. The resin was injected by running a small bore pipe through a custom inflatable packer.

### GENSEED UNDERGROUND SERVICES LTD, ONSITE CENTRAL LTD & PERSIMMON HOMES

#### BARNSTABLE PIPE UPSIZING BY ENCAPSULATION

Question: How do you upsize a 21 m long, 600 mm diameter concrete stormwater culvert to 750 mm that is running beneath a road that cannot be closed to traffic with the added complications of shallow depth and other services crossing nearby?

Answer: You think outside the pipe, adapt your existing equipment and techniques, and deliver the results.





FBOS Field Trial, London



LEFT TO RIGHT: ATTACHING UMBILICALS; INSERTION OF FBOS USING SVI MINI PIPE HANDLER; PE

## STEVE VICK INTERNATIONAL & CADENT FOAMBAG OPERATION ON STUBS – (FBOS)

FBOS enables the total replacement of metallic T1 stubs under 'live' conditions and permanently seals the annular space between the new PE pipe and the metallic stub, right up to the final transition joint, preventing future leakage. FBOS is carried out remotely and allows engineers access to areas of pipework where additional planning would otherwise have been required, for instance, underneath busy junctions or intersections. Due to the remote application of FBOS, the technique significantly reduces disruption to road users and customers and ensures safer working conditions for engineers and the public.

## INNOVATIVE TECHNOLOGY

SPONSORED BY



## PUBLIC SEWER SERVICES LTD, ANGLIAN WATER SERVICES LTD, CONDOR ROHR SYSTEM TECHNIK GMBH & TRACTO-TECHNIK UK LTD

### EXPANDER SLIP LINING HEAD

Bursting with Confidence.

Challenge Faced.

An extremely deformed 225 mm VC FW sewer with significant structural damage. Sections of pipe were out of scope for CIPP due to the damage and deformation. This challenge inspired the PSS team to create an expander slip lining head to enable the snap lock pipe to be installed without a full excavation

Therefore:

Reducing site establishment, plant and vehicles on site

Minimising time

Reducing cost

Reducing carbon

Rather than using traditional excavation techniques.





## WRC LTD, SGN, CADENT & ALH

### BONDED SERVICE FITTING ON A CURED IN PLACE PIPE (CIPP) LINED LIVE GAS MAIN

A completely novel fitting has been developed which enables the use of CIPP liners on gas networks where connections or access into the pipe is required. Prior to this work no such technology was available. The solution is non-metallic, bonded without mechanical attachment and designed to be installed quickly to align with the benefits of CIPP in reduced disruption, cost and environmental impact. The fitting has been proven to meet industry performance requirements and successfully installed as part of the first use of CIPP within the live UK gas network in recent decades.

## UIS LTD & CADENT GAS

### UIS VALVE TRAK

The UIS Valve Trak is a device that has been developed using IoT (The Internet of Things) to assist with the location of underground assets such as valves. Overtime underground assets become inaccessible and difficult to locate, they can be blocked by debris, buried or landscaped over. In the event of an emergency, engineers need to be able to access the underground asset quickly and operate it.

The UIS Valve Trak enables the engineers to identify and pinpoint the accurate location of any asset. Incorporated into Valve Trak can be any specific asset information such as a valve card.



## VALVETRAK

- 10 Year battery life
- BLE Technology
- IP-Rating 68
- Cloud Based
- Free portal access
- Unlimited portal logins
- 85dB at 200ms
- Operational 24/7/365

The UIS ValveTrak is a locating device which has been developed to assist with the location of Pipeline Isolation Valves (PIVs) to Multi-Occupancy Buildings (MOB'S).

Over time PIV'S become inaccessible and difficult to locate and can be blocked by debris.

In the event of an emergency, Engineers need to be able to access the valve and isolate the supply.

The UIS ValveTrak allows you to identify and pinpoint accurate location of the asset.

The UIS Valve Trak allows you to monitor your assets 24/7/365.

Incorporated into 'Valvetrak' will be the specific valve card for that location.

## WHAT IS VALVETRAK?

UIS provide a Cloud based fingerprint portal which can be accessed via a desktop and an App which is available on both Apple and Android devices.

Once UIS Valve Trak have been installed on the network a Field Engineer can simply log into the Secure Web Portal or App to identify and pinpoint the location of the specific asset.

Firstly, the Secure Web Portal or App provides visual images of the original install location to assist with the locating.

Once in range the Engineer's device will connect directly to the Valve Trak Device via Bluetooth and activate the Audible Alarm to assist with locating the exact location of the asset.

## DETECTION, LOCATION & INSPECTION

SPONSORED BY  
**CHANNELINE**  
*Beyond the Ordinary*

### CLARET CIVIL ENGINEERING LTD

#### SEWER DIVERSION – GROUND PENETRATING RADAR – LOWESTOFT

A surface water culvert was identified in Lowestoft as having collapsed. The solution was going to be to fill the culvert with concrete as it was filling with sea water. It was then identified that there were two foul sewer drains connected that should not be there.

We decided to divert the foul sewers allowing us to fill the culvert with concrete as planned.

GPR survey was used to establish a feasible route, whilst surveying a large BT chamber was found which significantly affected the route. Not identifying this could have led to multiple excavations, cost, disruption, inconvenience nearby.

### ELECTRO SCAN (UK) LTD, CAPPAGH BROWNE & SOUTHERN WATER

#### SOUTHERN WATER SEWER CONDITION ASSESSMENT PROJECT OF 51 KM

Electro Scan (UK) Ltd was awarded a 51 km sewer condition assessment project across multiple areas on the south coast. Using FELL technology, we were able to detect, locate and inspect any defects found in the sewer lines. Not only that but using FELL technology we were able to quantify that data we retrieved and give them a defect flow rate in litres per second (LPS) with a locational accuracy of just 1 cm! Electro Scan equipment enables us to find the defects that other technologies cant!

A New Approach

electro<sup>scan</sup>

Eliminate Variable of **'SEEING'** & Measure the **'Size of Hole'**



Electro Scan Technology Measures **'Size of Hole'** & **'Pipe Location'**



### UIS LTD & CADENT GAS

#### UIS VALVE TRAK

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The UIS Valve Trak enables the engineers to identify and pinpoint the accurate location of any asset. Incorporated into Valve Trak can be any specific asset information such as a valve card.



## ENVIRONMENTAL

SPONSORED BY 

### **PICOTE SOLUTIONS, PICOTE UK, LANES GROUP PLC & THAMES WATER**

#### **CONCRETE REMOVAL PROJECT WITH PICOTE MILLERS INSIDE DN150 CLAY PIPE IN LONDON**

A Lanes Group, Thames Water contract where there was 22 m of cementitious compound blocking a DN150 clay pipe in Ealing, London. Access was limited - nearby construction site traffic disrupted workflow throughout. Ongoing super high pressure water jetting removed approximately 0.5 m cement per day.

A 7.5 t Jetvac deployed twice daily prevented flooding. Lanes Group and Picote used high-speed cleaning Millers and tooling to clear the 22 m of cementitious compound in three days, versus the 44 days the project would have taken using existing systems, saving time, carbon emissions, water usage, fuel consumption, safety, money and labour, with minimal traffic disruption.

# EVENTS AND MEETINGS

## 2022

September 6-7: Pipes XIII  
Emperors Palace, Johannesburg

September 13-15: No-Dig Live 2022  
Peterborough, UK.  
Details from: [www.nodiglive.co.uk](http://www.nodiglive.co.uk)  
Includes the UKSTT Gala Dinner and Awards Ceremony

September 20-22: ITTC China 2022 26th China International Trenchless Technology Conference (ITTC) & Exhibition  
Suzhou International Expo Centre, Suzhou, China  
Details from: <http://www.cstt.org.cn/Yhome/Index/index.html>

October 3-5: ISTT's 38th International No-Dig Helsinki  
Helsinki, Finland  
Details from: [www.nodighelsinki.com](http://www.nodighelsinki.com)

October 11-12: British Tunnelling Society Conference and Exhibition  
QEII Conference Centre, London  
Details from: [www.btsconference.com/](http://www.btsconference.com/)

October 24-30: bauma  
Munich, Germany  
Details from: [www.bauma.de/](http://www.bauma.de/)

November 2-3: No-Dig Turkey 2022  
Istanbul Lutfi Kirdar  
International Convention and Exhibition Centre  
Details from: <https://www.nodigturkey.com/>

November 30: Trenchless Technology International Seminar  
Westin Hotel, Santa Fe, Mexico  
Details from: [www.trenchlessmexico.com](http://www.trenchlessmexico.com)

## 2023

April 30-May 4: NASTT 2023 No-Dig Show  
Portland, Oregon

May 17-18: Trenchless Asia 2023  
Kuala Lumpur Convention Centre, Malaysia.  
Details from: [www.trenchlessasia.com](http://www.trenchlessasia.com)

September 2023: Trenchless Egypt 2023  
Cairo  
Details from: [www.trenchlessegypt.com](http://www.trenchlessegypt.com)

October 17-19: International No-Dig Mexico 2023  
ISTT's 39th International No-Dig Conference and Exhibition  
Expo Santa Fe, Mexico

November 1-2: No-Dig Turkey 2023 Conference and Exhibition  
Darulbedai Cad. No 4 Harbiye Sisli,  
Istanbul 34367, Turkey

November 8-9: STUVA-Expo 2023 in Munich  
Messe München, Messegelände, Hall C1  
81823 München, Germany

## 2024

November: International No-Dig Dubai 2024  
ISTT's 40th International No-Dig Conference and Exhibition  
Dubai World Trade Centre, Dubai

If you have an event, course or meeting scheduled and would like to add it to this listing please forward details to: [editorial@trenchless-works.com](mailto:editorial@trenchless-works.com)



13-15 September 2022 East of England Arena &amp; Events Centre, Peterborough



# NO-DIG LIVE 2022 – A PREVIEW



No-Dig Live 2022 will once again take place at the East of England Arena and Events Centre in Peterborough, UK between 13 and 15 September. There will be the usual wide-ranging exhibition with live demonstrations both indoors and outdoors over the three-day event. We will look at some of the exhibitors and what they will be showing later.

Further to this there is an extensive seminar programme which will include:

**13 September 10.40 to 13.00**

## **JBP TRENCHLESS TRAINING AT NO-DIG LIVE 2022**

Professional Courses for Trenchless Professionals with:

- Introductory Session from Julian Britton – 'Training engineers for assets management and rehabilitation (including a short case study of a rising mains rehabilitation)'.
- Session 1: Don Ridgers – 'Understanding Rising Mains – tools for predicting failure'.
- Session 2: Tom Sangster – 'Water Mains Inspection & Assessment – beyond leak detection'.





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**13 September 15.30 to 17.00****THE GREEN ALLIANCE (FREE TO ATTEND)**

- The Green Alliance has been hosting a series of webinars all leading up to a face-to-face seminar at No-Dig Live. The Green Alliance was formed by The UKSTT & The Pipeline Industries Guild to explore, share and promote the industry's drive towards net zero and reduction in environmental impact.

**14 September 11.00 to 13.00****SEWERAGE SOLUTIONS FORUM (FREE TO ATTEND)**

- UKSTT is holding a 'Sewerage Solutions Panel' session at No-Dig Live 2022. This event involves members of the Sewer Rehabilitation Contact Group of network owners and UKSTT Patrons who will be looking for solutions to four issues they are facing.

**14 September 13.30 to 16.30****TRANSFERRING MINIMAL EXCAVATION METHODS - UKWIR/UKSTT/WRC (FREE TO ATTEND)**

- WRC has undertaken a project to review international activity and has identified 10 projects that are needed to bring minimal excavation techniques into the water sector.

**15 September All Day****WOMEN IN TRENCHLESS**

- A series of interviews with women in the industry discussing their achievements and the challenges they have faced.

There will also be a wide range of exhibitors that will be showcasing their products and services at the event. To make it easy for those with a particular interest we have herewith listed these exhibitors by industry sector.



13-15 September 2022 East of England Arena & Events Centre, Peterborough

# ASSET MANAGEMENT



2022

NO-DIG LIVE

13-15 September 2022 East of England Arena &amp; Events Centre, Peterborough

## C.SCOPE INTERNATIONAL

Established over 45 years ago, C.Scope International Ltd is a UK manufacturer with a global sales, service and support network.

The company supplies Underground Pipe and Cable Location equipment to the national utility providers of Gas, Power, Water and Telecommunications, as well as to companies providing engineering services for building and highways construction, railways and groundworks.

C.Scope's aim is to provide high quality products and services that make it safer, quicker and more cost effective to excavate down to or around underground pipes and cables. It is committed to an ongoing policy of research and development combined with providing unrivalled customer service and after-sales care.

At No Dig Live, C.Scope will be headlining with the SGV4 Signal Generator and MXT4 Signal Transmitter. Both of these C.Scope products perfectly complement C.Scope's XL4 range of data-logging Cable Avoidance Tools and, uniquely, they both also feature full data-logging capability ensuring that a complete record is kept of all onsite cable avoidance activities rather than a record of just half of the activity.

Data-logging proves that the equipment has been used when it needed to be used, allows for ongoing monitoring of that activity, and will allow for the quick and effective identification of any developing training requirements.

C.Scope's Automatic Daily Self-Test feature checks that the Cable Locators and Signal Generators are fully functional before use every day that they are needed. The data-logging feature on C.Scope's Locators and Signal Generators means that these tests are also being captured allowing the operator to keep a complete record of the working condition of their cable avoidance equipment at no extra cost.

No-Dig Live is also an opportunity to see C.Scope's range of non-metallic pipe Tracers which have been designed specifically for use in SMALL diameter pipes.

C.Scope Plastic Pipe Tracers are the smallest diameter product on the market and can be successfully inserted into pipes when nothing else fits. Their unique construction gives unparalleled reliability and yet allows both line tracing and the all-important end tracing using the remarkable Sonde technology housed at the very tip of the Tracers.





2022

NO-DIG LIVE

13-15 September 2022 East of England Arena &amp; Events Centre, Peterborough



## DART SYSTEMS

Dart Systems offers expertise, knowledge, and innovation. Providing quality products or bespoke solutions (via its in-house design and development team), as the perfect solutions for customers' requirements. A full range of Drain & Sewer Inspection Push Cameras - Dart Eye 2, Mini Dart Eye and the newest minCam MinCord 5 allows a survey range from 15 mm to 225 mm diameter, that is designed to reach even the most difficult-to-reach places.

The latest Rausch Crawler systems built into the company's brand-new, purpose-built demonstration van, the Cubix 300m M system, surveys diameters from 150 mm up to 3 m. The M series is also capable of being adapted to quickly transform into a lateral inspection system without the need for a second crawler. The OMICRON drive, portable 200 m system that allows surveys away from the vehicle in difficult to reach places from 100 mm up to 600 mm diameter is fitted with the new full electric lifter. OMICRON can also be adapted to combine two worlds into one and have an optional 80 m push rod fitted onto the same frame thus negating having to buy two controllers or two cameras. All systems are available in Standard, Full HD and ATEX options.

The brand-new Rausch Rehab range is also available. UV light-curing systems as well as intensity measuring equipment can measure all commercially available UV Lamps. UV Curing from portable RRcure 100 (DN100-300), the RRcure 1500 (DN150-1500), up to the RRcure 1000 + 2000 with up to 300 m of cable are available. The Robotic Cutter RRC1 cutting range from DN200 up to DN800, offers a full HD camera, up to 300 m of cable and a whole range of accessories make this a world leading, easy-to-use cutting system for all customers' rehab needs.

Dart Systems full range of Flex Rods up to 400 m, Flexitraces up to 200 m and Rodding Sondes, also aid productivity and ease-of-use for all customers' pipe tracing needs as well as the full RIGID range, provides customers with a total solution.



2022

NO-DIG LIVE

13-15 September 2022 East of England Arena &amp; Events Centre, Peterborough



## IMPULSE RADAR

Geomatrix Earth Science will be exhibiting alongside ImpulseRadar showcasing the PinPointR dual channel Ground Penetrating Radar (GPR) system and Raptor Multi channel GPR Array.

Specifically designed to meet the requirements of the utility detection industry the PinPointR GPR system combines ImpulseRadar's real-time sampling (RTS) technology with a 400 MHz & 800 MHz set of antenna to provide unquestionable data fidelity and resolution.

The dual channel electronics permit both frequency antenna to be recorded simultaneously and targets picked from either channel whilst on the go. The compact all-in-one design means the systems can be stored and transported complete so that it is ready for use at a moment's notice. From scanning to a full area survey, the PinPointR has got you covered.

The Raptor is designed for conducting rapid high resolution, total area coverage, data acquisition in locations where there is expected to be very complex buried infrastructure. Available with either 450 MHz or 800 MHz antenna the Raptor can be deployed within a small pushcart or larger vehicle mount for open areas. When combined with the streamline Condor processing software results can be ready for interpretation within hours of completing data acquisition.



2022

NO-DIG LIVE

13-15 September 2022 East of England Arena &amp; Events Centre, Peterborough

## IPEK

iPEK will showcase its new innovations like Lateral Launch and HD Camera equipment. Come and visit to see fully customised CCTV Vans in HD and SD formats. The company will also be showcasing new Mapping technology and other exciting new products for the UK Drainage Market.

Learn how easy it is to inspect laterals from the mainline thanks to iPEK's innovative ROVION SAT II inspection system. The crawler RX140SAT II is equipped with a steerable 8-wheel to navigate around roadblocks and is powerful enough to push past obstacles that halt other launch systems. Setup is quick and easy thanks to the Quick-Change-Design, a ramp-up from DN150 to DN2000 is done in less than a minute.

Robust, suitable for construction sites and ATEX certified for over 10 years. The ROVION and new ROVION HD inspection systems are up to the daily challenges in the sewer and stand for reliability worldwide. ROVION HD makes reports more accurate as smaller defects are more easily detected and the measurement of the defects due to the higher resolution. File size can be negated by recording in SD and save data whilst the live-view will remain Full-HD.





2022

NO-DIG LIVE

13-15 September 2022 East of England Arena &amp; Events Centre, Peterborough



## JETCHEM SYSTEMS

Superjet, a division of the Jetchem Systems Group, is a nationwide manufacturer and supplier of high- and ultra-high-pressure water jetting machines and equipment, together with a wide selection of drainage spares and accessories. Its range of services encompass hire, sales, service, spares, and training.

Superjet's focus for this year's No-Dig Live will be industrial cleaning solutions, primarily the new range of Stage 5 diesel jetting trailers which includes the very popular Sprint range, two of which will be on show.

There will also be the brand-new PTO jetting pack and of course the cutting-edge Electric van pack, which has been out on initial demonstrations this year, both showcasing the latest in technology for the drain jetting industry.



The 'in house' designed and built 7.5 tonne tanker will make its first public appearance. This unit has been designed for the busy drainage contractor. It is ideal for inner city use with a 1,000-litre capacity clean water tank and a 2,000 litre waste tank, 150 bar @ 100 lpm pump and a top-mounted spiral boom with full radio remote operation, all mounted on a 7.5 tonne chassis with auto gearbox and an array of lockable storage.

Live demonstrations will be ongoing throughout the event, with a selection of jetting nozzles such as the popular Warthogs, root cutting, fat removal jets and the flick jet. Flood prevention is a key issue, with the IDOS and Flood Monitor systems on display.

A first for this year will also be a 'pop up' shop displaying accessories and spares for the drainage sector with special offers only available for the show, competitions, and the chance for all visitors to our stand to win a prize giveaway.





2022

NO-DIG LIVE

13-15 September 2022 East of England Arena &amp; Events Centre, Peterborough

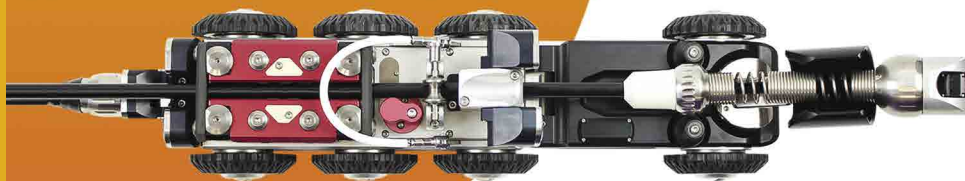
## EIGHT WHEEL DRIVE

Drive all 8 wheels simultaneously!



## GO FURTHER, FASTER

Launch to a distance of 45m at 12m/minute.



## MINICAM

The Proteus LAT150 from Minicam can inspect lateral pipes up to 45 m in length and has an overall crawl distance of up to 350 m. The innovative launch mechanism can be adjusted and serviced on-site, minimising operators' downtime and reducing running costs for the business. The Proteus LAT150 has 8x8 wheel drive, keeping inspections moving through debris and potential obstructions in the pipe. A hinged mid-section on the tractor allows for easy access into smaller manholes and runs in mainlines from 150 mm diameter and up. The class-leading pan and rotate camera is less than 50 mm diameter and includes twin lasers, this provides accurate pipe diameter, defect, and object measurements every time.

At Minicam, the company designs its own products with the user in mind, operating its equipment is simple. Servicing products is fast and cost-effective at MiniCam's dedicated Northern and Southern service centres.

2022

NO-DIG LIVE

13-15 September 2022 East of England Arena &amp; Events Centre, Peterborough

## RIDGID

RIDGID is proud to launch its new MicroReel APX Reel. A very comprehensive reel in a very compact package for pipelines from 40 to at least 100 mm diameter. The reel features 30 m of mid-flexible push cable and a 25 mm camera head. So far nothing new, but then it adds TruSense APX Technology, a data-enabled technology offering the on-camera inclinometer, 'TiltSense', that displays the camera's pitch inside the pipe and provides HDR 'High Dynamic Range' Image quality. What is more is the Digital Automatic Image flip with orientation indication that ensures the image is automatically flipped accompanied by an indicator, so users always know the orientation of the camera inside the pipe and correct side is up on the screen. The Reel includes a handy kickstand that can be placed in two different angles to offer more stability while inspecting.

When users combine the MicroReel APX with a CSx VIA wi-fi streaming device, they have everything they need to do quick look-see inspections in one handy and portable all-in-one solution. The CSx Via is a 'bring-your-own-screen' solution and gives users all the crucial features of a SeeSnake Monitor via the HQxLive app into their hands. Use with a smartphone or tablet and share inspection data direct and live to customers or to the office. Users can connect to 10 mobile devices simultaneously.

RIDGID SeeSnake TruSense empowered reels are made for the future. With their continuous free updates, users are ensured of an up-to-date monitor or streaming solution that always evolves with them. Reports can be made with the free mobile HQxLive app or with the free HQ desktop software, which allows live streaming from the monitor into the Windows enabled laptop!





2022

NO-DIG LIVE

13-15 September 2022 East of England Arena &amp; Events Centre, Peterborough

## SCANPROBE TECHNIQUES LTD

Scanprobe is a leading UK manufacturer of drain inspection camera systems and a reseller of lining materials and equipment. Based in South London, it has been family-owned and operated since 1985, helping the drainage industry progress through innovation.

Alongside its flagship Maxprobe range of push-rod camera systems, Scanprobe will be exhibiting the X40, the first model in its new 'X-Range' series.

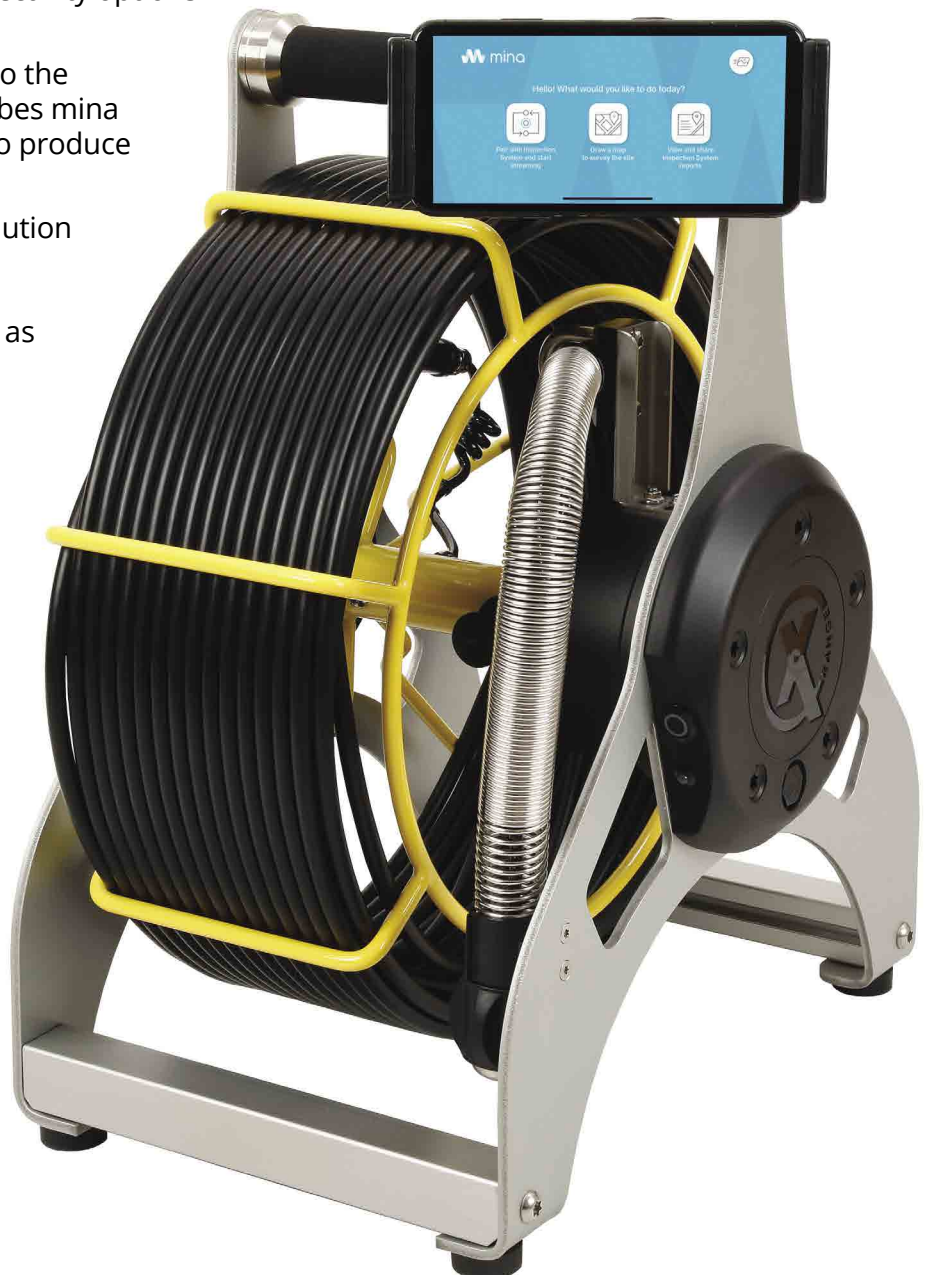
The X-Range revolutionises the way users visualise and report inspections by embracing mobile technology to remove the dependency on the traditional control box.

The X-Range offers multiple connectivity options including:

- Plug in a smartphone or tablet to the X-Range coiler and use Scanprobes mina software app for a look-see or to produce a video report.
- Purchase the bespoke tablet solution with the coiler which has the X-Range app incorporating full mina reporting software as well as WinCan ProTouch
- Already have a Scanprobe control box? Connect it to an X-Range for all the usual Scanprobe control box functionality

The X40 is a lightweight solution, designed to provide the flexibility to navigate tight trap-bends whilst being rigid enough to be pushed the distance in abrasive pipes. With its 40 m of rod and 30 mm diameter camera with built-in sonde, the X40 is best suited for 75 mm to 100 mm diameter pipes.

Scanprobe will also be exhibiting relining equipment sold under its Renoline brand, including inversion drums and pipe cleaning machines.





# The New X40

**Compact, lightweight, battery operated CCTV camera system, with unrivalled connectivity. Allowing you to complete a professional video survey using your mobile phone or tablet.**

The X40 is the first of a long range of products enabling you to create full video reports with text, titles and distance counter overlays, directly on a mobile device. Eliminating the need for cumbersome, often expensive, custom designed control boxes that require regular servicing.

Now you can simply purchase the X40, download the mina app on your mobile device and you are ready to start producing professional drainage CCTV surveys.

For more information please visit [www.scanprobe.com](http://www.scanprobe.com)

- Aluminium construction 12.5kgs
- 6.4Ah Internal battery, up to 5-hours run time
- 360° rotational device holder
- Mobile device controlled iOS/Android
- Text, titles & distance counter overlay
- Maxprobe CCU compatible



Live mina stream image depicted

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**Scanprobe Techniques Ltd**  
Unit 11, Kenley Trade Park,  
Old Barn Lane, Kenley, Surrey CR8 5AU

**Tel:** 020 3253 2001 **Email:** [sales@scanprobe.com](mailto:sales@scanprobe.com)  
[www.scanprobe.com](http://www.scanprobe.com)





2022

NO-DIG LIVE

13-15 September 2022 East of England Arena &amp; Events Centre, Peterborough

## THE HEATH MORGAN GROUP

The Heath Morgan Group provides innovative award-winning engineering solutions for the global utility and infrastructure industries. Providing the best in products and services to locate, survey and detect issues, whilst reducing the need for excavations.

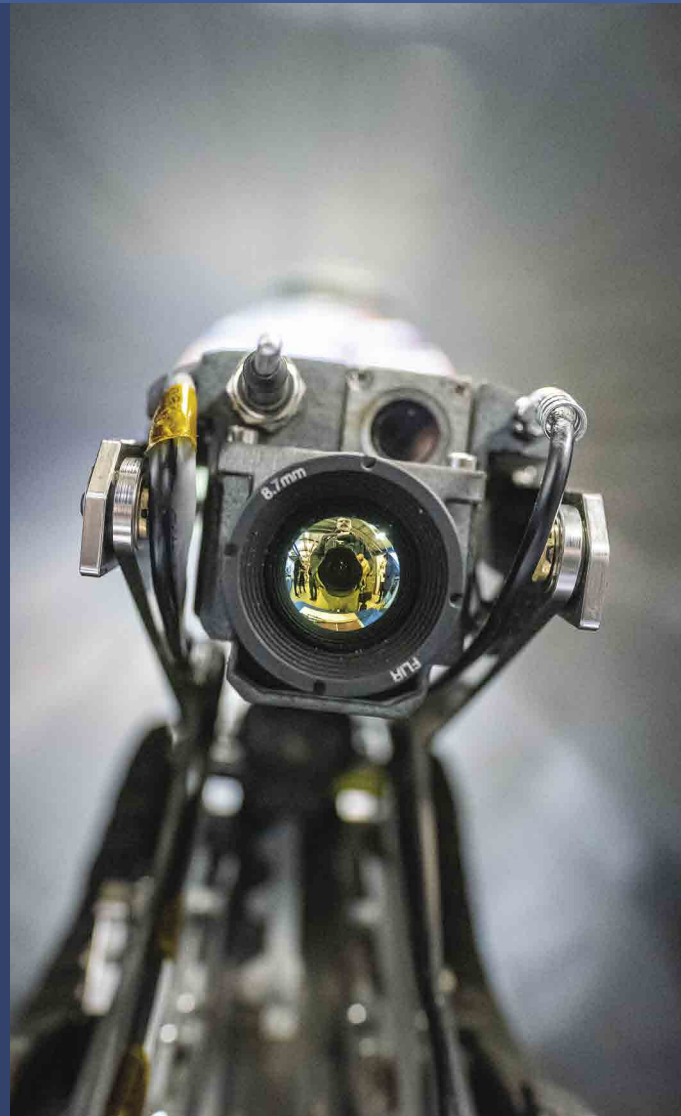
The Heath Morgan Group is made up of three subsidiary companies – Synthotech, HMG Water solutions and SynOvate.

Together they are the leading supplier of pipe vision, maintenance, rehabilitation, replacement, and construction systems; as well as asset location, survey and detection systems and under pressure in-pipe robotics.

They also provide research and development services, equipment manufacturing services with their own in-house machining centre. The company is a product reseller, service and hire centre and offers training and specialist services with a highly trained and experienced engineering team.

At No-Dig on Stand 35 the company will be launching several new products including:

- Water systems - Locating leaks and surveying using sound and vision
  - > PipeMic Flex V0.2 – For finding leaks in water pipes can be used through a boundary Box.
  - > ServiceCam H2O with Microphone for service pipe.
- Gas systems – surveying and leak detection systems using vision
  - > SynthoCam 4 – Camera system for surveying live gas pipes.
  - > TITAN PE – Pan and Tilt camera system for use on live 180 mm diameter and above PE pipes.
  - > LeakVISION - Internal gas leak detection using thermal imaging.
- Gas maintenance kits
  - > 4-Bar M-CEX Stopper System for exchanging an ECV.
  - > Semi-Concealed M-CEX stopper System for exchanging an ECV.
- Drainage systems
  - > Drainage camera system.
  - > 1,000 m Easysight Crawler.
  - > ijiNUS wastewater network management.





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13-15 September 2022 East of England Arena & Events Centre, Peterborough

## NEW INSTALLATION

A large green pipe is being installed in a trench. A yellow crawler crane is positioned at the top of the trench, lifting the pipe. The pipe is laid out in a straight line along the length of the trench. The ground around the trench is dark and appears to be soil or mud. The scene is illuminated by bright sunlight, creating strong shadows.



2022

NO-DIG LIVE

13-15 September 2022 East of England Arena &amp; Events Centre, Peterborough



## MAMMOTH EQUIPMENT LTD

Mammoth Equipment Ltd will have both indoor and outdoor displays at the show and will be displaying the company's range of HammerHead moling and piling equipment as well as portable pipe bursting equipment such as the PortaBurst™ Static Rope Bursters and the HydroBurst™ Static Rod Bursters. The company also offers a range of pneumatic pipe bursting equipment. New and updated trenchless equipment will be on display and available for demonstration throughout the event.



## TRACTO UK

Delighted to be back, TRACTO UK will have a sizeable stand showcasing a whole host of products from its range of trenchless technology. As well as a large static display outdoors, the company, which was responsible for bringing the concept of moling to the trenchless market with the renowned GRUNDOMAT range, will also be participating in live demonstrations throughout the three day show. A further range of products will be hosted on the outdoor stand of distributor, TA Drilling.

Static equipment includes:

- GRUNDORAM Mini Olympus and Koloss horizontal rammers
- GRUNDOPIT PS60 fluid-assisted mini-HDD rig
- GRUNDOBURST 400S & 800G static pipe-bursting systems
- GRUNDOPIT KHD & TSC coring unit
- GRUNDOMAT mole range
- Keyhole truck and water systems
- Vac-Ex T-vac
- Bagela winch, cable pusher, cobra and roller

Working equipment includes:

- GRUNDOPIT PS40 mini drilling rig with jetting systems and easy breakout tool
- GRUNDOSTEER guided rod pusher
- Long Handled Tools – New Service Connection Equipment



On the TA Drilling stand the new GRUNDODRILL ACS 130 will be making its show debut along with a GRUNDOROCK accessory.

TRACTO equipment is ideal for the installation and refurbishment of underground utilities in all ground conditions, from the hardest rock to the softest sand. Unashamedly engineered and manufactured in Germany to the highest quality, the range is sold and supported by TRACTO UK from three depots in Bedford, Staffordshire and Scotland. As well as servicing, maintenance and spares TRACTO UK is an accredited EUSR-approved operator training provider for GRUNDOMAT Moles, GRUNDOWINCH Twin Capstan Winches and GRUNDOBURST Pipe Bursting Equipment, as well as an Introduction to Horizontal Directional Drilling course.



2022

NO-DIG LIVE

13-15 September 2022 East of England Arena &amp; Events Centre, Peterborough

## T.A DRILLING

T.A. Drilling has long been established as a go-to company for Trenchless equipment and consumables. The company will be demonstrating a TRACTO ACS130 dual rod directional drill and giving operators the chance to get a true hands-on experience. This will be in combination with the latest tracking system from UNDERGROUND MAGNETICS the MAG9. It will also have on display a TONGHAND XS from LaValley Industries, the ultimate exit side tool allows drill rod handling including making and breaking joints without any personnel in the danger zone. In addition to the live demonstrations, T.A. Drilling will have Guided Auger Boring Equipment from PERFORATOR, Recycling and Mixing systems from SITETEC, a PRIME directional drill along with equipment from TORO, GARBIN and VACWORX.



## TRENCHLESS GROUP

Trenchless Group is thrilled to welcome Naylor Industries, with which Trenchless Group is partnering to showcase its products and how they are key to the industry. Trenchless Group will be on hand to show visitors all of its Trenchless products, such as the full range of impact moles by Essig which will be fired up with a C14 portable compressor if visitors want to see! Trenchless Group also has the Hercu range and Piling Moles, leading its class for power and reliability, as well as its EasyDrill mini-HDD system with an excavator; a high spec cable drum trailer from Jakob Thaler and, of course, a selection of the range of cable laying accessories including rollers, drum stands, cobras, Chinese fingers and so forth. Trenchless Group's 50 t pipe burster from TRIC will make an appearance, along with one of the fleet of Perforator guided auger boring rigs so visitors can see what Trenchless Solutions contracting division gets up to. The company will also have its Hammerhead 125 t pipe (rod) burster which is amongst the largest currently operated in the UK.



13-15 September 2022 East of England Arena & Events Centre, Peterborough

# REHABILITATION





2022

NO-DIG LIVE

13-15 September 2022 East of England Arena &amp; Events Centre, Peterborough



## AMIBLU

Amiblu's history dates back to the 1950s and 1960s with the development of Hobas Centrifugal Cast and Flowtite Filament Wound GRP pipes, respectively. Both names, Hobas and Flowtite, became synonymous in the production of GRP pipes worldwide as separate brands and in 2017 Amiblu was formed to bring the two market leaders together.

Amiblu now leads the way in GRP pipe development and production for trenchless, open-cut and above ground pipe and storage systems. At No-Dig Live 2022 the company's team will be ready to show exhibition and conference visitors examples of its NC Line pipes for non-circular slip lining and structural rehabilitation plus its GRP jacking pipes, widely used for microtunnelling, pipe jacking and of course sliplining and structural rehab works too.

In recent years, Amiblu has decisively set the tone in the market regarding its products' sustainability and also to environmental thinking regarding raw materials, transport, and installation of the pipes. Now the company is working rapidly towards becoming Carbon Neutral in the coming years, with all plants operating on renewable energy creating high strength, abrasion and corrosion resistant, light weight pipes with optimal hydraulics, requiring minimal maintenance and providing a remarkably long design life exceeding 150 years offering both sustainable and resilient solutions to asset owners. The greenest pipe is the one you do not have to replace.



Courtesy of Steadline Ltd. A20 Kent NC-Line Structural Rehabilitation 2021

2022

NO-DIG LIVE

13-15 September 2022 East of England Arena &amp; Events Centre, Peterborough



## C J KELLY INTERNATIONAL LTD

C J Kelly is an established consultancy and distribution business specialising in sewer and pip renovation. The company is able to offer unrivalled support to our clients from conception and structural design through to installation. All this is backed up with training and technical support on all its products.

C J Kelly International Ltd also distributes some of the world's leading trenchless technologies from, KOB Brawoliner, MC Construction Chemicals, HÄRKE, Picote Solutions, and its own innovative Multi-Kit® Pipe Repair system, which allows it to offer a long-lasting rehabilitation solution for customers.

## EGEPLAST UK

egeplast UK, formerly Westwood Pipelines, will be exhibiting a comprehensive range of trenchless pipe systems and fabrications at this year's No Dig Live. Enabling trenchless installation without damage, egeplast pipe systems include its SLA barrier pipe, the egeplast SLM DCT system and the egeplast 3L Leak Control continuous monitoring system.

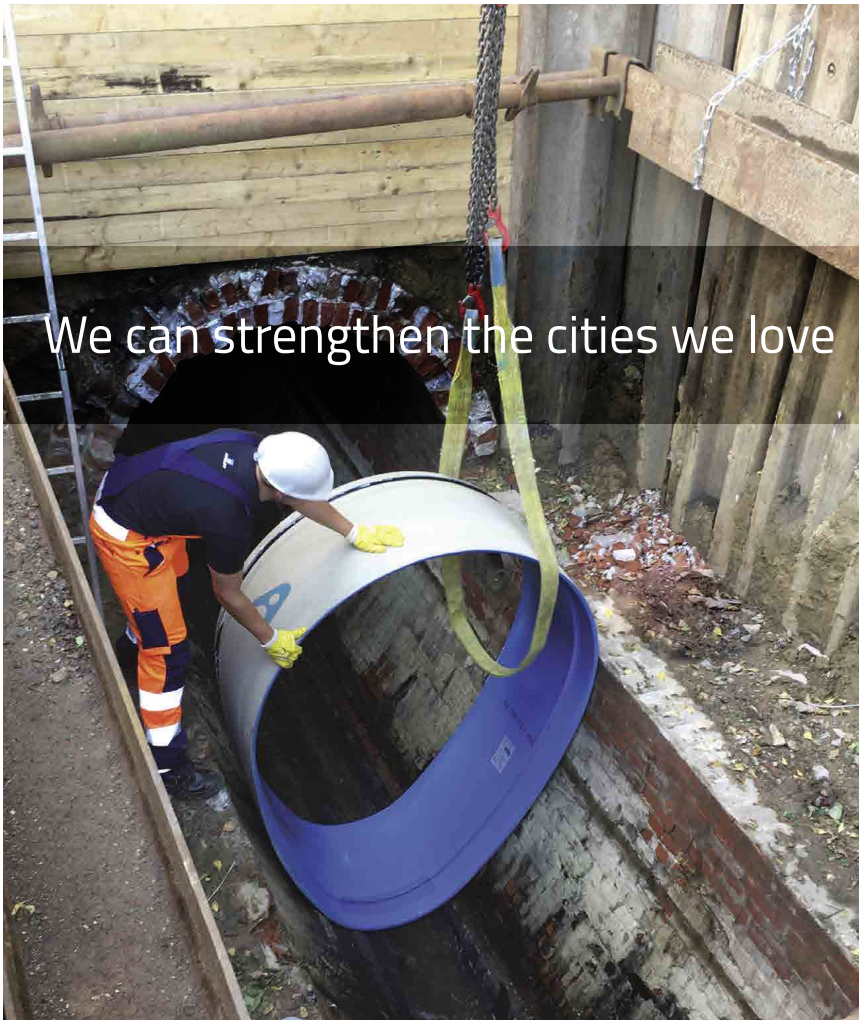
egeplast's SLA barrier pipe provides a cost-effective, high-quality way of protecting clean drinking water from contaminants in brownfield land; the SLM DCT system enables instant integrity checks for damage free installations and the egeplast 3L Leak Control system instantly provides information to water companies when a leak occurs. This enables them to minimise damage and resolve any issues to prevent significant outages for customers. Monitored products also stop the need to wait until there is a significant burst or an obvious major leak and so help protect the environment from any unexpected 'spillages' from sewage or other contaminated fluids which are being transported.

With a long-standing commitment to investment in R&D and the development of industry firsts including Europe's first barrier pipe, egeplast is focussed on the provision of innovative future-proofed pipe systems which help meet the challenges being faced by its customers and wider society.

Operating from state-of-the-art manufacturing facilities in Yorkshire, UK, egeplast UK has a 20-year track record in the manufacture of specialist product solutions and benefits from the financial and technical backing which comes from being part of egeplast International GmbH, a leading European manufacturing business that has been setting benchmarks for decades.

A leading supplier of PE pipe systems, fittings and related fabrications for the UK utility and construction sectors, egeplast UK customers include Kier, Balfour Beatty, Clancy, Morrison, South-West Water, Yorkshire Water and Welsh Water.





# Amiblu®

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## Amiblu NC Line

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2022

NO-DIG LIVE

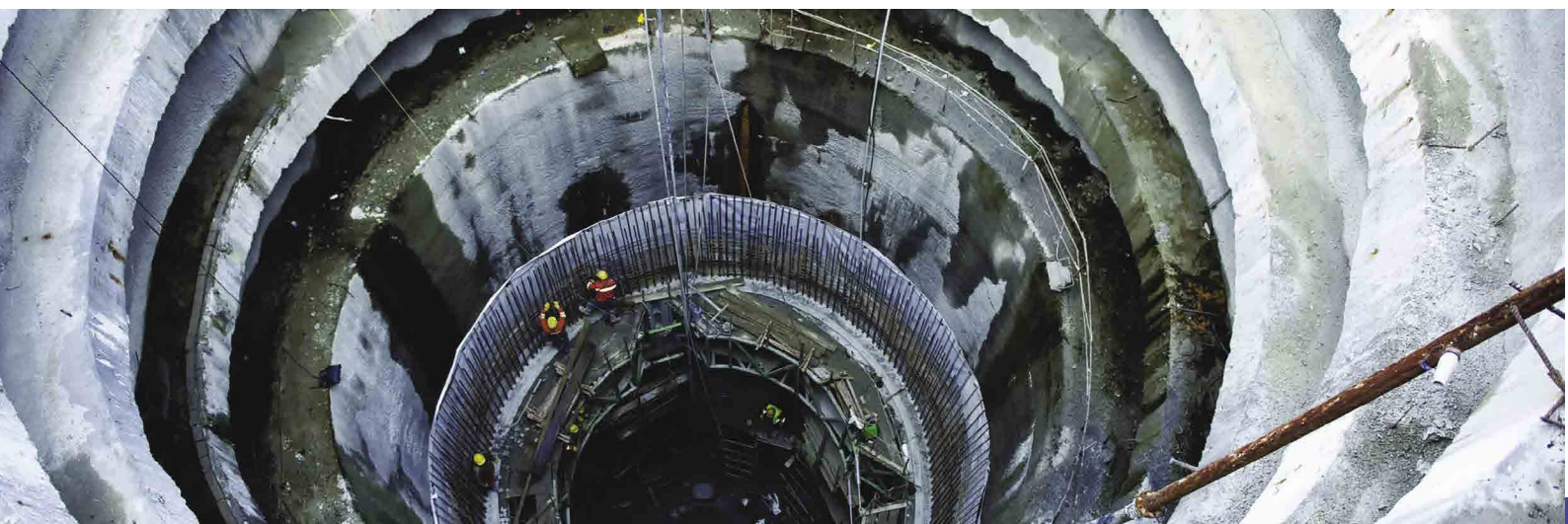
13-15 September 2022 East of England Arena &amp; Events Centre, Peterborough

## HERMES TECHNOLOGIE

Hermes Technologie was founded in 1987. Today the company operates in over 20 countries worldwide with offices in Germany, France, the Czech Republic, Austria and UK. During this time, it has developed specialist materials and application equipment to provide long term wastewater mortar rehabilitation solutions, with reduced requirements for man-entry, for wastewater networks.

Hermes provides high levels of training and bespoke rehabilitation solutions with its extensive product range, which covers most aspects of sewer repair and renovation, from annulus grouting, mortar injection and corrosion resistant coatings to bedding mortars for manhole covers and frames.

At this year's No-Dig live Hermes also will be demonstrating its new range of PU injection resins.



## IMERYS

Imerys is a world leader in mineral-based specialties, offering high value-added solutions to many different industries, ranging from process manufacturing to consumer goods.

The company's value-added solutions are formulated to meet the technical specifications of each customer and contribute to the performance of a multitude of products serving many industries such as construction materials, mobile energy, steelmaking, agri-food, automotive, and cosmetics.

Imerys' IBECO specialised sodium activated bentonites are designed for underground works. Whether it is about slurry shield tunnel boring machine operation, vertical drilling,

No-Dig and trenchless or diaphragm and cut-off walls, Imerys will study customers' exact needs to provide the right solution for the job site to run smoothly. Beyond products, the company's technical support at the job site to customer crews allows it to deliver a complete solution.

The SewperCoat and newly launched SewperLiner products, for repair and rehabilitation and new assets respectively, are designed to provide the ultimate barrier to H<sub>2</sub>S biogenic corrosion in municipal sewer environments. Trusted and proven, easy to use and extremely durable, SewperCoat has been the go-to 100% calcium aluminate mortar solution for protecting or rehabilitating wastewater infrastructure from H<sub>2</sub>S biogenic corrosion for over 30 years.



2022

NO-DIG LIVE

13-15 September 2022 East of England Arena &amp; Events Centre, Peterborough

## NORDITUBE TECHNOLOGIES

NordiTube Technologies, established since 1987, is a leading technology provider for trenchless pipe rehabilitation and has been producing CIPP liners for more than 30 years.

Having its seat in Belgium, the experts of NordiTube Technologies offer a wide range of innovative systems, materials, equipment, expertise and technical support to customers around the world.

NordiTube Technologies' portfolio comprises optimised solutions for maintenance, rehabilitation and renewal of gravity and pressure pipes, such as sewage, water, gas, industry, petrochemistry and heating.

The company's fully-structural and semi-structural solutions are available in dimensions ranging from DN50 to 1400. Solutions for new construction up to DN3000.

This creates a 'one-stop shop' for innovative pipe rehabilitation solutions. Under the motto 'all from one source', NordiTube provides the entire range of pipe rehabilitation technologies, including materials, equipment, technical support and approved high-end liner systems.

Constant product-development and improvement play an essential role for NordiTube in catering to customer needs and setting trends in the pipe rehabilitation industry.



## PICOTE - OUTDOOR STAND 36

Picote is an innovator and manufacturer of high-speed machinery, tools and methods for the cleaning and rehabilitation of small diameter pipelines from DN32 to DN300. Its range of battery-powered equipment is growing, with a Midi-Roller, Wet-Out Station and Vacuum Pump for efficient CIPP wetting-out now available, alongside the Battery Mini Miller and Battery Mini Cleaner.

The upgraded Connection Collar 2.0 System provides a superior 360° connection which seals the mainline and the lateral, using fully-taped collars and a custom push-rod system which can navigate multiple bends to install and rehabilitate connections, with optional steam curing with the new Picote Steamer for even faster project completion. Collars can be installed from the mainline or the lateral and is available for T and Y connections and double connections with 90° or 180° angles.

Picote Flexi-Sliplining is an environmentally-friendly rehabilitation method for gravity sewers DN100 to DN300. Eliminating the need for traditional sliplining trenches, Picote Flexi-Sliplining utilises a DIBt certified tri-layer PE pipe which is flexible enough to turn in on itself, which coupled with Picote-designed equipment offers a completely trenchless manhole-to-manhole method.

Train with Picote at either of its training centres in Whitburn and Sandhurst. Courses with certification available, including Picote Millers, Picote Brush Coating™, concrete and liner removal with the Maxi Power+, Connection Collar 2.0 and Picote Flexi-Sliplining.

LIVE demos outdoor will be given throughout each day at No-Dig Live.



2022

NO-DIG LIVE

13-15 September 2022 East of England Arena &amp; Events Centre, Peterborough

## PICOTE AQUA - INDOOR 18

Picote Aqua is launching to the UK market. Picote Solutions is an innovator and manufacturer of high-speed machinery, tools and methods for the cleaning and rehabilitation of small diameter pipelines from DN32 to DN300. Picote Aqua utilises the same tried and tested machinery and tools deployed at thousands of wastewater worksites around the world every day for clean water applications. Picote Aqua Millers offer increased range and capabilities, they can be nanocoated for additional hygiene and have food-grade shaft lubricant for extra safety.

Working within a short window of opportunity, Picote Aqua Millers provide a high-speed solution which can safely remove even very heavy tuberculate in only one or two passes, leaving a well-prepared surface for pipeline rehabilitation. Picote Aqua Millers have a small worksite footprint and can fit in any standard-sized work vehicle. They are less labour intensive than traditional methods, requiring fewer operatives.

To increase the company's current range, it now exclusively offers the Schwalm Talpa Robot series for clean water in the U.K., enabling contractors to work over lengths up to 200 m when required. The Talpa 1330 is suitable for DN150 to DN300 pipes and the Talpa 2060 for DN200 to DN600. Compatible with industry-leading CCTV systems, the Talpa series includes interchangeable components between robots.





2022

NO-DIG LIVE

13-15 September 2022 East of England Arena &amp; Events Centre, Peterborough

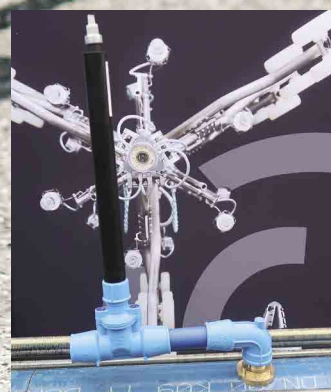
## PROKASRO

For more than two decades ProKASRO has stood for progressive pipe rehabilitation systems. As a market leader, many tailor-made pipe and sewer rehabilitation solutions have been created like UV curing equipment ranging from DN 150 to DN 2000 as well as pneumatic, electric and hydraulic robots, laminated cap (top hat) placement systems and resin injection equipment.

On the booth at No Dig Live Peterborough, the company will exhibit its well-known electric robots 1.7 and 4.0 together with its powerful UV jumbo core 6 x 1000 W for diameters up to 2,000 mm.

Besides these components Prokasro will also showcase a new development for water mains, The KASRO Pipedock. In 2020 ProKASRO entered into a collaboration with the Hawle Austria group. Hawle developed a new type of fitting that can be installed with the ProKASRO Pipedock, requiring very little excavation whilst maintaining the integrity of CIPP linings. It can also be used in PE pipes and linings.

For the installation on water mains, only a small pit or keyhole is needed. No T-pieces and end seals are required. After lining, a hole is drilled through the pipe and lining into which the Pipedock inserts the Hawle fitting. Durable water tightness is achieved with an internal sealing system on the sophisticated fitting that also protects the laminate of CIPP linings. For the installation of service valves on the fitting, a series of tools are available, facilitating a non-man entry mounting from the road surface. The fitting comes with a thread or a Hawle quick connection system to enable an easy connection to common service valves or other fittings.



2022

NO-DIG LIVE

13-15 September 2022 East of England Arena &amp; Events Centre, Peterborough

## RE-TEC

At this year's show No-Dig Live, Re-Tec will have its new facelift model Liner Jet 150. This sluice is used to invert liners from 70 mm diameter up to 150 mm. For larger pipes the Re-Tec Liner Jet 300, which has also been upgraded, will be on the stand. This larger sluice will take infinite lengths of liner from 150 mm diameter up to 300 mm. Both pieces of equipment are easily handled and transportable making it easy for the installer to handle long lengths in a confined space.

Also featured on the stand will be the Fixaline range of Electro Mechanical drain cleaning and milling machines along with the ancillaries. Within the Fixer series of machines is the new Fixer Combi. The Fixer Combi can house either 10 mm or 12 mm diameter flexible cable and sleeve up to 30 m in length. The large wheels make the Fixer range easily transportable on the work site as well as being easy to roll on/off the van. The Fixer series comes complete with adjustable speed control and foot pedal, giving a smooth cutting action. The Fixer units are mounted in a robust steel frame and the inverter and controls are housed in a protective steel casing.

In addition, Re-Tec will be offering its range of patch lining materials and equipment including: Liners, resins and the Permanent Pipe Stop kit.





2022

NO-DIG LIVE

13-15 September 2022 East of England Arena &amp; Events Centre, Peterborough

## RELINEEUROPE

RELINEEUROPE offers a one-stop-shop with multiple solutions for sewer No-Dig rehabilitation with a variety of GRP hose liners for many different applications and a variety of powerful UV-light curing systems.

The RELINE GRP hose liner types Alphaliner500G and Alphaliner1800H offer very high mechanical properties. They can be used in all common pipe profiles (circular, egg, box and special profiles). Individual lengths of up to more than 350 m are possible in order to minimise the impact on road traffic during the installations works. All Alphaliners are available either with incorporated protective gliding foil or incorporated Preliner to reduce installation times to a minimum.

RELINEEUROPE offers the Alphaliner500 G for small and medium pipe cross sections. This liner type is the most economically favorable system for application in damaged host pipes with dimensions from 140 mm up to 500 mm diameter.

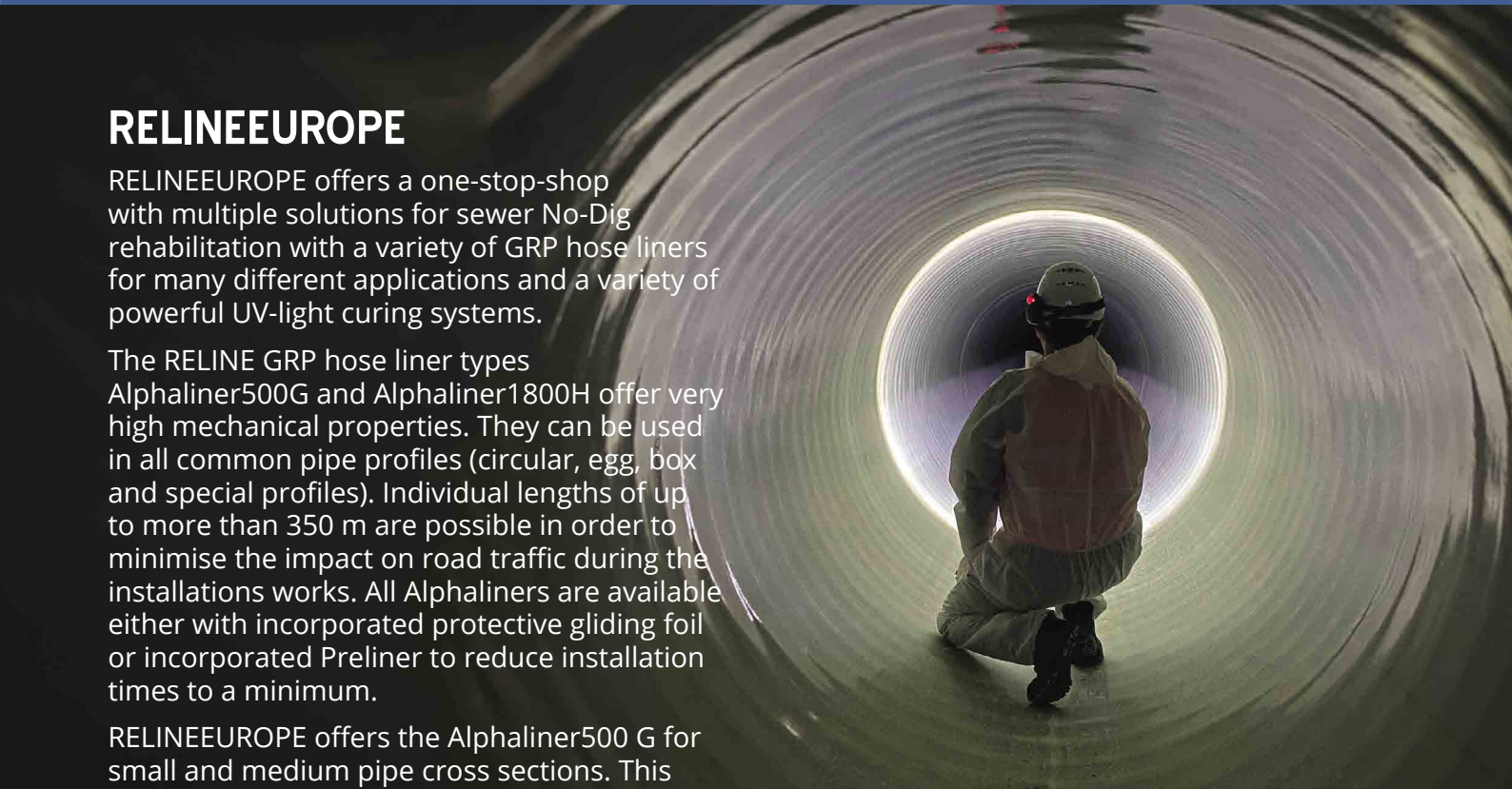
Over recent years, the demand for No-Dig rehabilitation of culverts has increased significantly. Meanwhile, diameters up to 2,000 mm are also being rehabilitated using UV-light curing GRP lining systems. The choice for rehabilitation of large profiles is therefore the Alphaliner1800H, which is designed for maximum structural load capacity. The Alphaliner1800H is the UV-light curing GRP hose liner with what is claimed to be the highest mechanical characteristics worldwide. It offers a Young's modulus of 19,062 MPa (short-term value according to BS EN 11296-4) or 15,947 MPa (long-term, 50 years, value according to DIN EN 1228).

Due to this continuous development and improvement of the mechanical characteristics, it is possible to reduce the liner wall thicknesses requested by the host pipe condition as well as from the liner design requirements. The reduction of the liner wall thickness leads to various advantages including: it allows a faster and secure curing; the weight of the liner drops

and allows for easier installation as well as the pulling with lower tensile forces, combined with reduction of any liner damage during the installation works.

RELINEEUROPE's powerful UV curing system has been developed after years of experience in the industry. The process includes hardening assistance software systems, ensuring light intensity is used as efficiently as possible, allowing precise irradiation power for fast curing. A variety of light sources are available with outputs between 4,000/6,000 and 12,000/24,000 Watts for diameters between 140 mm and 2,000 mm.

Additionally, the further development in the UV curing technology with application of up to 6 x 4,000 Watts UV-light intensity, means that it is also possible to cure GRP hose liner with very large wall thicknesses with pure UV-light. As several installation partners have already demonstrated with the renovation of large profiles, the REE4000 UV system from RELINEEUROPE enables the curing of wall thicknesses up to 22.5 mm without the addition of peroxide (conventional combination curing).



# More robust than ever: The Alphaliner with the new exterior protection

RELINEEUROPE®

EXTRA GREAT  
SERVICE

## Extra robust exterior protection

Styrene proof foil

Coated foil

Glassfibre reinforced complex

Abrasion protective layer

Inner foil

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2022

NO-DIG LIVE

13-15 September 2022 East of England Arena &amp; Events Centre, Peterborough



## RSM

RSM Lining Supplies Global Ltd (RSM) is a leading UK supplier of CIPP materials, equipment, and services, that is committed to offering the utmost in both technical and service support whilst focusing on maintaining their position at the forefront of the Sewer Rehabilitation Industry.

Its ethos is to introduce choice and technology to the industry, positioning itself as a forward thinking, market-leading supplier that customers trust and rely upon. Offering a wide array of products available for next day delivery, the company strives to be as reliable and efficient as possible and place paramount importance on each customer's individual requirements.

RSM supply the full package of technical knowledge, equipment, services and materials to the wastewater industry. Its dedicated sales and technical teams deliver a comprehensive support structure, including the supply of materials, installation equipment, training and consultancy services and any technical support required to ensure customers' sewer rehabilitation projects are successful.

RSM's full range of CIPP equipment and materials will be available to view on the stand throughout the exhibition. Striving to ensure the company keeps up to date with the latest technological advances within the CIPP industry, it will also be showcasing a variety of new products, including:

- The new and improved Sewertronics LED Rig, capable of installing UV glass liner in diameters up to 600 mm.
- New and improved RSM Speedy Liner for UV and LED cure
- New diameter change Echo Liner with the capacity for multiple diameter changes.



2022

NO-DIG LIVE

13-15 September 2022 East of England Arena &amp; Events Centre, Peterborough



## SANIVAR UK

Sanivar UK is exhibiting at No Dig Live to promote its pressure pipe lining technologies that offer long term sustainable pipe refurbishment options for multiple sectors including water, waste, industrial and gas.

Over the past 12 months the company's project portfolio has grown and it has installed its SaniTube liner on both Rising Mains and Fire Mains to maintain the integrity of critical assets. The liner is available in diameters from 80 to 500 mm and is a winch-through liner that avoids the need to invert or cure, meaning that installations can be completed within two hours with minimum excavation or specialist resource.



The SaniLine liner is available in diameters from 80 to 1,200 mm and is a cured in place liner that has provenance around the world on potable, waste and industrial networks.

Both liners are tested to 32 bar and are flexible with typical wall thicknesses of less than 3 mm, meaning that bends can often be navigated without excavation and that there is limited loss of bore.

Sanivar will also be showing its new range of service pipe liners, SaniFlex and NEOFIT covering diameters from 10 to 50 mm.

With water resources under increasing stress and the industry losing 2,459 million litres of potable water a day through leakage a radical reset is needed in network maintenance. Traditional repairs mean repeat visits and multiple excavations and contribute to the £70 billion cost of interventions and disruption caused by the utility sector every year.

With Reg31 Approval imminent for SaniTube and a Worldwide provenance Sanivar is in a unique position to offer a proactive solution to leakage management.



2022

NO-DIG LIVE

13-15 September 2022 East of England Arena &amp; Events Centre, Peterborough

## S1E LTD

S1E Ltd is promising some more firsts at its No Dig Live Stand this year. The company will be boasting its impressive distribution partnerships for some of the industry's most innovative products; covering Inspection, Cleaning & Robotics, Lining and Point Repair.

S1E will be showcasing the Brawo® Magnavity® LED light-curing system, in partnership with Brawo Systems, the first in the UK. The Magnavity LED system cures the high quality Brawoliner from DN70 to DN300 using the easily interchangeable Nano or Mega Head. The Magnavity system's modular and lightweight design makes it easy to manoeuvre and ideal for sites with limited or difficult access. The Magnavity technology also helps save time by not having to traditionally push the cable reel into place at the end of the liner. S1E will be showcasing this system at the show and outlining some of the unique benefits to its possible users.

As well as a unique set of strategic supply partners, S1E prides itself on its ability to support its customers in the field. Whether it be onsite support, technical advice, training, servicing via its dedicated service centre, the company is dedicated to supporting the success of its customers.

At the show, S1E will also be inviting customers to its IBAK Open Days, a two-day event giving customers the opportunity to take an in-depth look at a range of IBAK Robotics Systems, including the IBAK Microgator Air Mainline Robotic Cutter. IBAK will also be on hand to support demonstrations throughout the two days. The company's German partners will also be attending the No Dig Show this year and will also be available at the German Pavilion.



## SUEZ

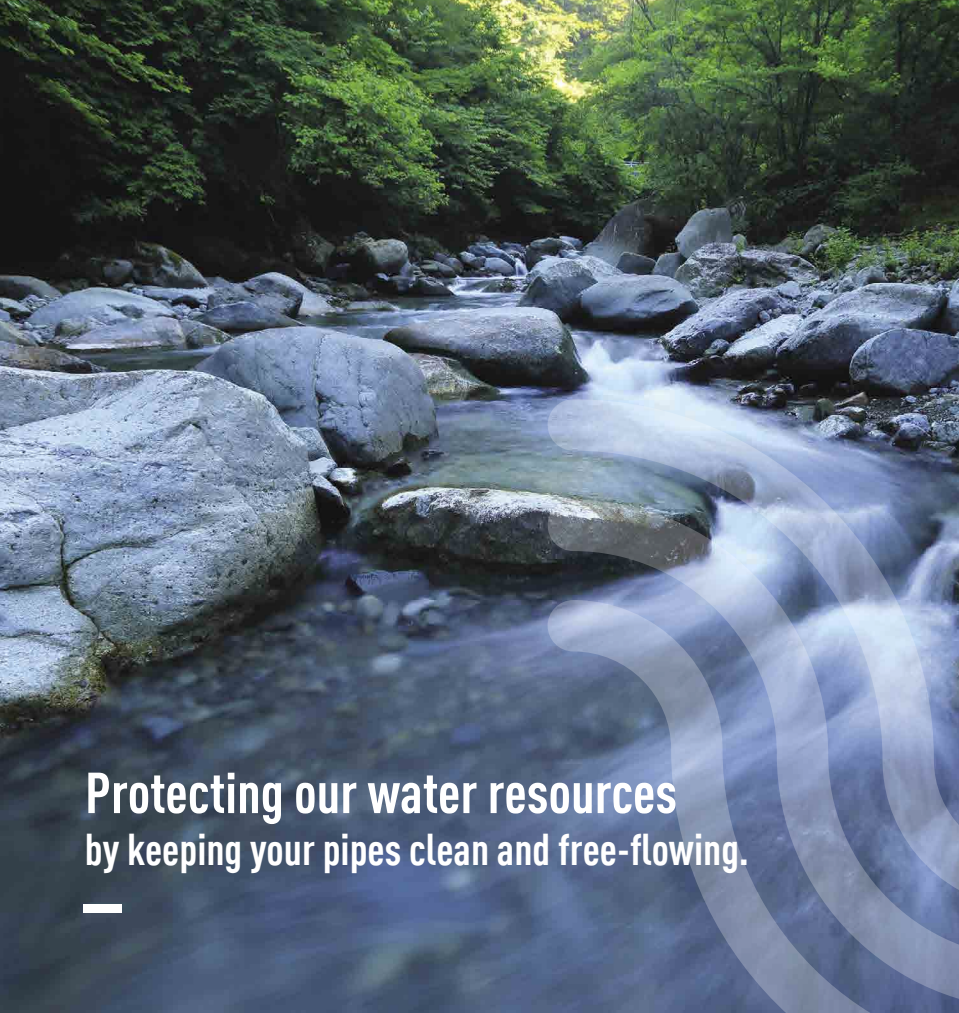
The SUEZ Ice Pigging™ team will once again take part in this year's No-Dig Live event. To meet the team and learn more about how Ice Pigging™ works visit the live demonstrations which will take place at 10.30, 12.30 and 14.40 each day of the show.

Ice Pigging™ is the ultimate No-Dig cleaning solution for drinking water, wastewater and other industrial applications. It is a highly effective pipe cleaning technique that uses ice slurry to remove unwanted material, sediment, or product residues from the pipe.

An environment-friendly process, Ice Pigging™ is fast, easy to use, requires less water than conventional flushing, versatile, cost-effective, and effective, with lower risks to pipework.

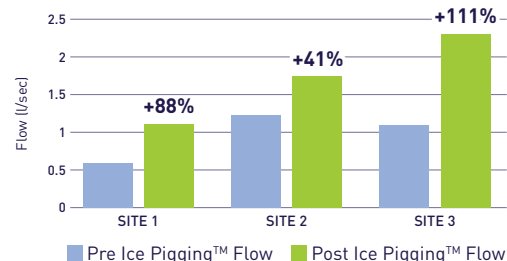






Protecting our water resources  
by keeping your pipes clean and free-flowing.

Pre and Post Ice Pigging™



Pipes need to be clean to operate effectively. Ice Pigging™ is a no-dig method of improving hydraulic performance of pressurised pipes by removing accumulated fouling.

Flow improvements vary by application, but most are in excess of 40% higher than pre-clean levels. Ice Pigging™ can be applied using existing fittings and requires minimal downtime on the asset.

Improved hydraulic performance will also lead to reduced energy consumption and extended asset life.

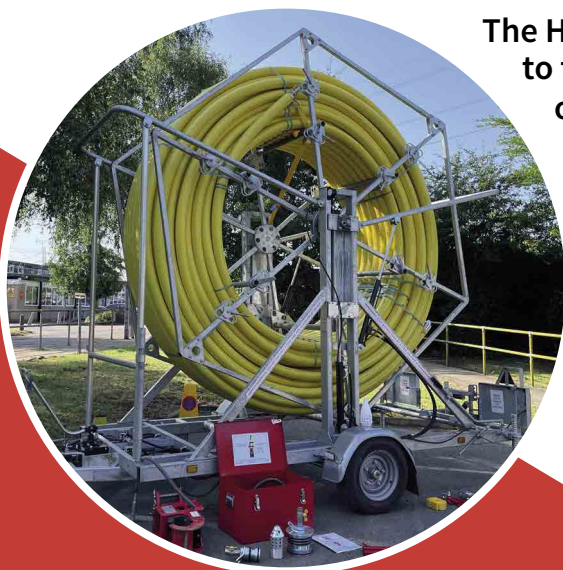
Find out more at [www.suez.com/en/uk](http://www.suez.com/en/uk)



# Hexi Trailer

Helping the Industry achieve Net-Zero

The Hexi Trailer offers a safe and easy way to transport, store and dispense coils of 100 – 500m.



Benefits reported by GDN's -

- **Cost savings** – reduce PE wastage by up to 20%
- **Reduce Carbon footprint** – less PE waste, less excavations, less backfill
- **Time saved** – quicker to load a 500m coil than several smaller coils
- **Safe** – trailer spins the coil rather than the team – it's the gangs choice of trailer!

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STAND 19



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2022

NO-DIG LIVE

13-15 September 2022 East of England Arena &amp; Events Centre, Peterborough

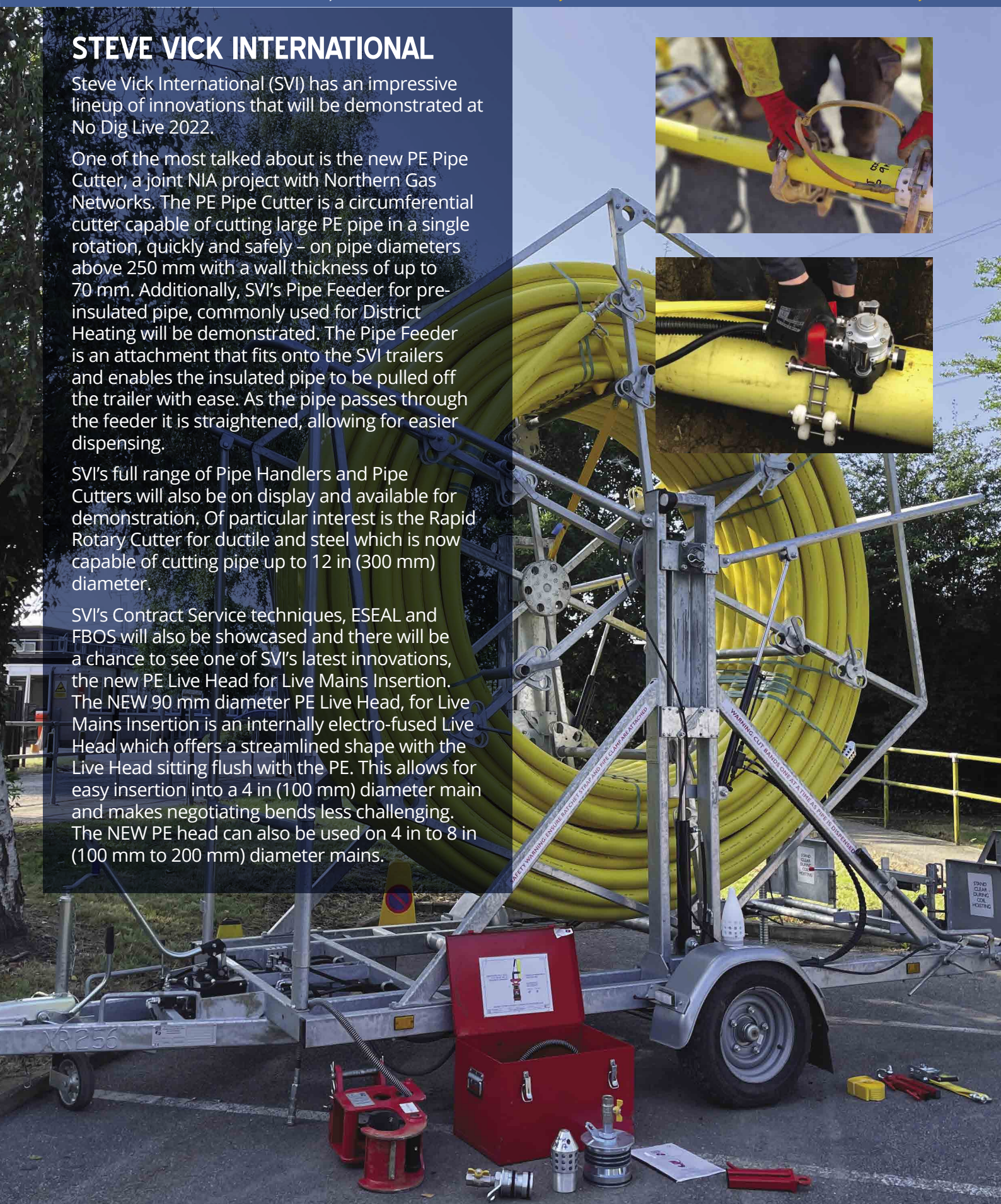
## STEVE VICK INTERNATIONAL

Steve Vick International (SVI) has an impressive lineup of innovations that will be demonstrated at No Dig Live 2022.

One of the most talked about is the new PE Pipe Cutter, a joint NIA project with Northern Gas Networks. The PE Pipe Cutter is a circumferential cutter capable of cutting large PE pipe in a single rotation, quickly and safely – on pipe diameters above 250 mm with a wall thickness of up to 70 mm. Additionally, SVI's Pipe Feeder for pre-insulated pipe, commonly used for District Heating will be demonstrated. The Pipe Feeder is an attachment that fits onto the SVI trailers and enables the insulated pipe to be pulled off the trailer with ease. As the pipe passes through the feeder it is straightened, allowing for easier dispensing.

SVI's full range of Pipe Handlers and Pipe Cutters will also be on display and available for demonstration. Of particular interest is the Rapid Rotary Cutter for ductile and steel which is now capable of cutting pipe up to 12 in (300 mm) diameter.

SVI's Contract Service techniques, ESEAL and FBOS will also be showcased and there will be a chance to see one of SVI's latest innovations, the new PE Live Head for Live Mains Insertion. The NEW 90 mm diameter PE Live Head, for Live Mains Insertion is an internally electro-fused Live Head which offers a streamlined shape with the Live Head sitting flush with the PE. This allows for easy insertion into a 4 in (100 mm) diameter main and makes negotiating bends less challenging. The NEW PE head can also be used on 4 in to 8 in (100 mm to 200 mm) diameter mains.





13-15 September 2022 East of England Arena & Events Centre, Peterborough

# REPLACEMENT





2022

NO-DIG LIVE

13-15 September 2022 East of England Arena &amp; Events Centre, Peterborough

## KOBUS SERVICES LTD

Kobus Services Ltd will be exhibiting at the No Dig Live 2022 event offering the unique KPP300 and KPP400 Pipe Pullers for the trenchless replacement of legacy gas and water service pipelines. The KPP300 is a modular unit, driven by its own power pack, which is ideal for single replacements and difficult to access applications. The big brother KPP400 is a self-contained, excavator-mounted Puller which suits multiple replacements in one area. Both Pullers are capable of removing lead, copper and PE pipes up to 1 in (25 mm) diameter and approximately 20 m length. The excavator-mounted Puller has also been specially designed to remove steel service pipes with its additional power and unique spool design.

The old pipe is quickly removed taking just minutes to extract it from the ground and a new PE replacement pipe is towed in along the same path making the process quick, easy and safe. This technique virtually eliminates the risk of utility strikes and the old legacy pipework can be recycled instead of being left as environmental waste in the ground.



13-15 September 2022 East of England Arena & Events Centre, Peterborough

# TRADE ASSOCIATION/ SOCIETY

The background of the entire page is a blue-tinted image. At the top, there is a stylized city skyline with various buildings and houses. Below the skyline, there is a road with several cars driving. In the center of the page, there is a large, detailed image of a robotic arm. The arm is white and black, with a camera lens in the center and a light at the end. It is positioned diagonally across the page.



2022

NO-DIG LIVE

13-15 September 2022 East of England Arena &amp; Events Centre, Peterborough

## UKSTT

The United Kingdom Society for Trenchless Technology (UKSTT) is the only membership organisation solely dedicated to promoting the use of trenchless technology during the installation or renovation of underground pipelines, utilities and services in the UK. The UKSTT provides leadership, support and educational opportunities for organisations and individuals involved in trenchless technology.

Established in 1993 the Society was established as a stand-alone, independent body, affiliated with the International Society for Trenchless Technology (ISTT). As a member of the UKSTT, members have exclusive access to the ISTT website where amongst other things, you will have access to hundreds of past papers from trenchless conferences.

The UKSTT stand will provide a networking area for anyone attending NO-DIG Live. Free tea, coffee and cream teas will be available throughout the three days. There will be a dedicated registration area for new members to sign up and discuss the benefits of membership and a special NODIG Live offer will be in place for all organisations and individuals who sign up during the event. On Thursday UKSTT will be hosting its German counterpart GSTT, for a traditional British 'Afternoon Tea'.

The UKSTT has a unique Trenchless Enquiry Service that provides a platform for its members to offer solutions to ongoing projects. Members come from all sectors of the industry and consists mainly of Utility Companies, Contractors, Manufacturers, Suppliers, Consultants and Service Providers.

For almost 30 years, the UKSTT has provided members with access to the latest technological advancements, technical information, and educational opportunities through their Masterclasses, Roadshow and NODIG Live conference programmes, webinars and online events. Information is also provided through the Societies Trenchless BUZZ online magazine as well as through their official magazine and media partner Trenchless Works. UKSTT – Think Trenchless First!

A leading supplier of PE pipe systems, fittings and related fabrications for the UK utility and construction sectors, egeplast UK customers include Kier, Balfour Beatty, Clancy, Morrison, South-West Water, Yorkshire Water and Welsh Water.





13-15 September 2022 East of England Arena & Events Centre, Peterborough

## SUPPORT TECHNOLOGIES/ ACCESSORIES





13-15 September 2022 East of England Arena &amp; Events Centre, Peterborough



## ATE

Towmate Trailers is part of the ATE Group. The company is a UK-based manufacturer producing tough trailers for the utilities and construction markets. Based in the southeast of England, it is a family run business and has been trading in the industry since 1995. After a period of two years, ATE is pleased to be attending the No-Dig Live show. The company will be exhibiting at the show with some exciting new products and also showcasing further improvements that its engineering team has been making on existing ranges.

The Raptor Pipe Trailer will be on show with a new and improved design that has come about because of customer feedback. Featuring the company's steel Towmate mudguards, and multiple improvements made to make various elements of the trailer more robust, the new Raptor pipe trailer really embodies the durability that Towmate Trailers is known for.

ATE will also be displaying a brand-new product, its first cable drum trailer. Based on its signature modular chassis, this product has been in the making for over 12 months. Following intensive testing and customer feedback, the company is pleased to be showing a prototype at the No Dig Live Show. As standard, the trailer features hard-wearing durable LED lights, heavy-duty steel mudguards, durable running gear and a 3-year warranty package. The running gear on the trailer is made up of common parts, all of which are stocked by AlphaParts, at the ATE group head office in Colchester, ensuring a quick turnaround and delivery and helping to keep trailers on the road.

**RAPTOR**  
FROM TOWMATE



## LAUNCHING THE NEW AND IMPROVED PIPE TRAILER

The number one trailer choice for water, electrical and gas coil pipe transportation has just got even better. Come and see us on **stand no. 44** at **No Dig Live 2022** to see for yourself!

Join us at **Stand No. 44** from **13<sup>th</sup> to 15<sup>th</sup> September 2022**



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**TOWMATE**  
TRAILERS FROM **ATE**



## No-Dig Live 13<sup>th</sup>-15<sup>th</sup> September

For more information and tickets visit  
[www.nodiglive.co.uk](http://www.nodiglive.co.uk)

We will be showcasing our full range of pipeline engineering solutions, no-dig installation close-fit lining technologies, Subcote® FLP spray lining and much more!

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13-15 September 2022 East of England Arena &amp; Events Centre, Peterborough



## ATLAS WINCH & HOIST SERVICES

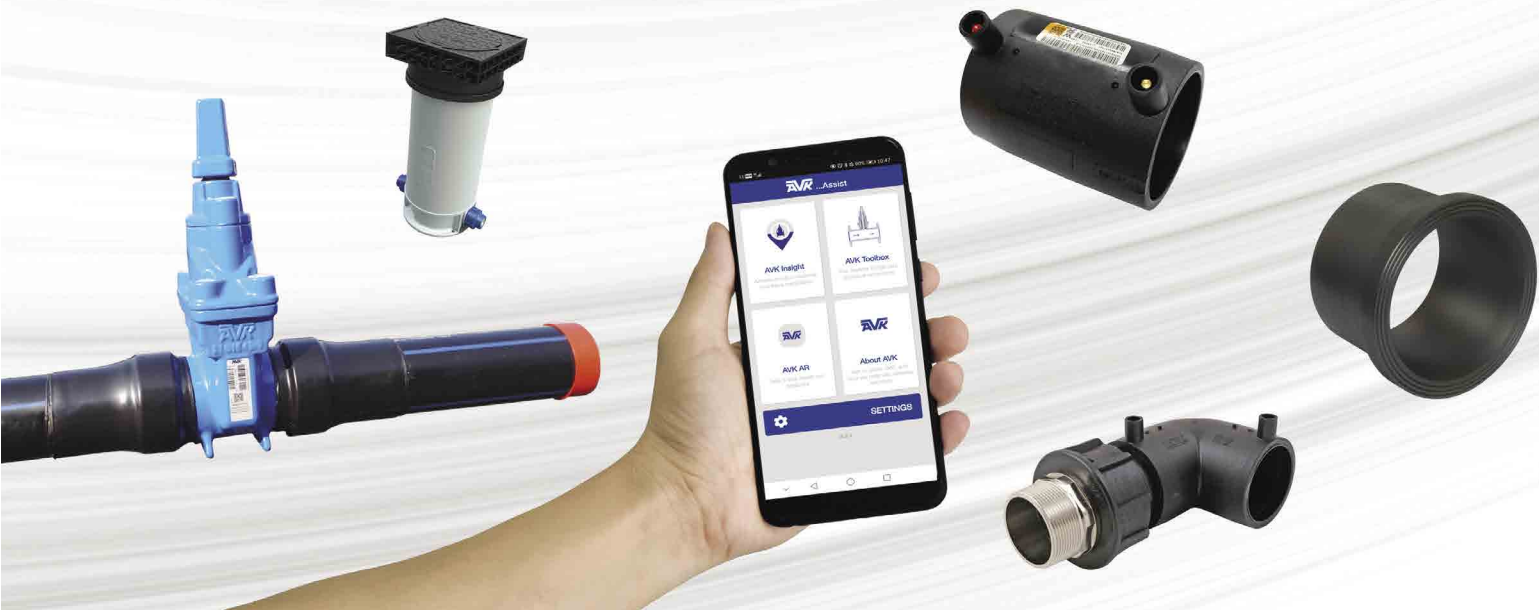
Atlas Winch & Hoist Services Ltd is a winch expert and specialist supplier of an extensive range of winches, lifting equipment and cabling equipment for the Utility, Marine, Construction and Civil Engineering and Renewable Energy sectors. Offering hire, sales, manufacture, maintenance, inspection, testing and training services. Atlas serves the whole of the UK and beyond through its offices in the South of England and Scotland. Its extensive stocks and market knowledge means it can find the best solution to meet customer needs, budget, and timescale.

Atlas will be exhibiting some of its cable and pipe pulling equipment. Visitors will see a variety of cable and pipe pulling winches, portable and trailer mounted capstans, cable pushing and blowing machines, cable drum trailers, cable drum jacks and a selection of the cable accessories and duct proving equipment that the company has available for hire and sale.





13-15 September 2022 East of England Arena &amp; Events Centre, Peterborough



## AVK

AVK in the UK is delighted to be attending this year's No-Dig Live exhibition. The event is one of the leading exhibitions for the utilities sector attracting visitors from all aspects of the industry, including tier one and two contractors, specialist installers and of course manufacturers.

This year, AVK's team is looking forward to meeting customers, colleagues, and friends, to discuss the latest innovations within the sector, whilst showcasing several of its joint solutions and developments including AVK Gate Valves with PE Ends which brings the benefit of reduced water and wastewater leakage, while offering high durability with easy installation. Visitors can also learn more about the AVK and Fusion Assist apps which help specify, select, and then record the installation quality and GPS location of an asset.

Gain insight into AVK Smart Water technologies too, which through digital monitoring, helps users to gain greater control of their network by converting quality and efficient data into valuable insights.

No-Dig Live is a highly focussed event providing the ideal forum for discussing the latest industry developments worldwide. It is a live, working environment and an ideal opportunity for manufacturers and suppliers to demonstrate products.

AVK's attendance at No Dig Live 2022 will build on the success of last year's event where it showcased several innovations and products including The AVK Pentobox, gas and water fittings, Fusion electrofusion and the AVK and Fusion Assist apps.

The AVK UK Group of companies includes AVK UK Ltd, Fusion Group, Glenfield Invicta Ltd, Atlantic Plastics Ltd, Bryan Donkin Valves Ltd, AVK Syddal Ltd, and AVK Aqua Gas Manufacturing Ltd.



# LESS DIGGING. ADD ATLAS.



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Add Atlas to your project and save time, money, and effort. We stock an extensive range of cable and pipe pulling winches suitable for all trenchless operations.

**Add Atlas Winch and Hoist Services to your project.**  
**Give us a call today to discuss your requirements.**



**ATLAS**  
WINCH & HOIST SERVICES LTD.

## NO-DIG ROADSHOW 2022

2022  
NO-DIG ROADSHOW

Part of a series of one day seminars and exhibitions providing an insight into the very latest innovations in trenchless technology

**Warrington**  
**Tuesday 22 November 2022**

Venue: The Park Royal Hotel & Spa,  
Warrington WA4 4NS

To book please contact:  
Gary King, [gking@westrade.co.uk](mailto:gking@westrade.co.uk) or  
Trevor Dorrell, [tdorrell@westrade.co.uk](mailto:tdorrell@westrade.co.uk)  
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REGISTER  
TO ATTEND!

### Stand Costs

UKSTT Members: £1,350+VAT

Non-Members: £1,500+VAT

Event Sponsor: +£1,000+VAT on top of  
your stand cost – Limited availability

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The No-Dig Road Show series is organised by Westrade Group Ltd and supported by the United Kingdom Society for Trenchless Technology (UKSTT)



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## CHARLES & DEAN

Charles & Dean (C&D) is a forward thinking, innovative brokerage offering fully flexible finance options to fund any addition to any business. With a team of dedicated finance specialists who liaise directly with suppliers and lenders, the company can offer a transparent service supported by infrastructure to tailor flexible funding, fast.

Whether customers are looking to invest in new tech, release value from existing assets or would just like to explore options, C&D helps business owners access the cash they need, when they need it. The company also collaborates with suppliers directly to offer finance to customers, strengthened by digital marketing support in the form of co-branded webpages and strategic profiling across social media as part of our &Partners initiative.

Through working closely with clients to offer the rates, structure and 'in life' management that they deserve, C&D has developed incredibly strong relationships with its lenders that have an intrinsic understanding of the sector-specific products and the marketplace served.

With over 20 years of experience in the industry, C&D has financed an asset priced £100K+ nearly every business day this year. The company's experience extends across the Construction, Engineering, Manufacturing, Transportation, Haulage, Recycling and Materials Handling sectors. However, its capability to fund assets of any kind is not sector specific and can be applied to many unique situations. Overall, £196,000,000 has been funded in the last 12 months and the company well equipped to advise clients to invest in their growth.

C&D is very much looking forward to the forthcoming No-Dig Live event and will be on hand to talk through its fast, personable and tailored service and the options available to customers.





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## DCR

Home to the UK's largest fleet of drainage equipment for hire, DCR will be showcasing the underground technology it has to rent and buy at this year's No-Dig Live! The company will be bringing inspection cameras, drain cleaning machines, lateral cutters and more from renowned manufacturers such as Minicam, Milwaukee, Picote and Dancutter.



Visit DCR's stand to find out more about how the company and the technology it offers can help customers to grow their business. Renowned for always putting customers first, DCR uses a consultative approach. It develops a deep understanding of its clients' organisations, particularly their undertakings and objectives. Thanks to this, DCR can recommend products that will provide clear benefits such as greater efficiency or improved capabilities.

As well as hiring and selling underground technology, DCR also offers consultancy and drainage/CCTV van design, services that greatly benefit from the in-depth understandings it develops. Visitors will be able to see an example of a drainage van conversion DCR has undertaken at its stand, and the company also welcomes visits from drainage professionals seeking advice on any challenges they face.

Last but by no means least, DCR will be demonstrating why the ManUp Key, a unique tool for moving stuck and seized access covers, can make an organisation more efficient and keep employees safe!

## DENSO

For more than 90 years, Winn & Coales (Denso) Ltd has been creating bespoke and off-the-shelf solutions that provide enduring protection against corrosion and chemical attack to buried and exposed pipes, valves, fittings, steelwork, marine structures, tanks, and concrete banded areas.

The Company is at the forefront of innovative corrosion prevention technology, focused upon developing an extensive range of solutions to meet the needs of the oil, gas, water, and utilities sectors.

For trenchless installation methods, Winn & Coales has developed Bore-Wrap™; an abrasion resistant, sacrificial outer laminate which protects pre-approved field joint coatings and mainline coatings such as epoxies, shrink sleeves, and FBE. It is engineered to protect field joint coatings and factory-applied pipeline coatings from the abrasion stresses and scarring of directional drilling (HDD), and boring.

Denso Bore-Wrap™ combines the Company's experience of protective material with a deep understanding of severe pipelining conditions. This approach has led to a remarkably effective and reliable system which complements the other coating systems within their current range and helps ensure protection of the primary coating when you need it the most.

In 2021, its Parent Company Winn & Coales International, expanded its product portfolio with the acquisition of the global Viscotaq™ business including Amcorr Products & Services Inc, manufacturer of viscoelastic protective coatings.

Winn & Coales (Denso) Ltd offers a full range of coatings for pipelines including Petrolatum, Bitumen, Butyl, and Viscoelastic tape wrap systems, liquid epoxy coatings, heat shrink sleeves, and a range of outerwraps. From sub-zero environments to extreme high temperatures, the range of coatings is capable of withstanding the toughest conditions, as well as proving to be cost-effective and maintenance-free for many years to come.





## FUSION UTILITIES

Founded in 1971 as a small tooling manufacturer, Fusion Utilities is now a nationwide, multi-utility supply chain partner providing the essential water, gas, power, fibre, hire and repair products and solutions.

The company is a leading provider of butt fusion and electrofusion pipe jointing equipment for hire, sale, and repair. Its specialist skills and experience, innovative technology, and commitment to training and product development ideally positions it to meet the challenges of dynamic industrial and utilities markets.

Fusion Utilities' offering is underpinned by a continual commitment to building its business around customer's needs, with the emphasis firmly on:

- Superior technical expertise
- Unrivalled range and availability
- Friendly and responsive service

All repairs, refurbishments and calibrations are carried out to the highest standard by factory trained and authorised engineers, to industry and manufactures specification. Whatever the problem, Fusion Utilities' expert engineers are on hand. If on those rare occasions any of the equipment breaks down, the company will endeavour to supply temporary replacement equipment to keep projects on track.

At No-Dig Live 2022, the New McElroy iSeries TracStar will take centre stage on the stand. The iSeries is the next generation of TracStar® machines offering the industry a sophisticated, rugged, and productive fusion machine. Numerous improvements have advanced the level of technology available while simultaneously hardening that technology to make the entire fusion experience more reliable. The TracStar iSeries features new emissions-compliant engines, a CAN bus control system, along with numerous hydraulic, mechanical, and electrical upgrades. Integrated, software-controlled machine options from manual to fully automatic improves operator consistency and adherence to standards.



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## IMS ROBOTICS

IMS Robotics UK Ltd will proudly be showcasing the latest in robotic cutting and UV Curing innovations at this year's No Dig Live Exhibition.

Accompanied by colleagues from IMS Robotics Head Quarters in Germany, IMS Robotics UK Ltd will be displaying and demonstrating the latest range of robotic cutters such as the new DN75-250 MICRO S automatic and the DN150-600 DRIVEplus and, as a second cutting robot carriage, the DRIVE 4 system.



The DN75-250 MICRO S automatic builds upon the solid reputation of the already well-established MICRO range of robotic cutters. These extremely flexible systems offer a much slimmer cutting module than the standard MICRO range (60 mm as opposed to 72 mm) offering excellent flexibility in pipe bends (90° in DN100) and also offers a cutting head with endless 360° rotation. Other features of the system include an automatic climbing and creeping function, a 50 m supply hose with integrated push rod and an inbuilt mini pc with software included for jobsite reporting. The DN150-600 DRIVEplus is one of the latest mainline cutting devices to be added to the IMS Robotics range. Equipped with two interchangeable air motors, the DRIVEplus offers a cable reel of up to 150 m, a driven carriage with an outer diameter of just 135 mm, integrated positioning sensors and a swivelling camera with LED lighting. Other features of the system include a meter counter, a back-eye camera and water lens cleaning equipment. As a second option the control unit of the DRIVEplus can connect to the DRIVE 4 that is even slimmer as it is based on the well-established and proven DRIVE 2 model and its sizes.

13-15 September 2022 East of England Arena &amp; Events Centre, Peterborough



Also on display for the first time in the UK market will be some of the latest innovations on UV curing on offer from IMS Robotics UK Ltd. This will include the DN150-1600 UV 12000 compact curing system built into a dedicated truck and the newly launched DN75 -300 UV LED system, that IMS has just started to promote under the brand name MICROcure.

The UV 12000 UV curing system enables trenchless rehabilitation of main sewers with nominal diameters up to DN1600 and is compatible with different light sources which are selected according to the size of the main sewer and have an output of 12x400 to 12x1,000 watts. The system installed in the vehicle consists of a 180 m cable drum, curing cable, an integrated ignition system and an integrated control system. All data relevant to the curing process is also recorded.

The newly launched DN75-300 MICROcure system is a house connection LED curing system. Capable of negotiating 90° bends in DN100 relined pipes, the MICROcure system consists of two LED light sources (LED head 400 watts and LED double head 800 watts) a 70 m cable drum, a control panel with monitor and curing software plus a retraction unit. The route, amperage, temperature, internal pressure and speed are all recorded with downloading of the curing protocol possible via USB. Pre-installed on the device is a remote maintenance feature enabled via WiFi hotspot.

IMS Robotics UK Ltd will also showcasing other new products available within the IMS Robotics Group of companies and partners. These include a complete range of cutting tools from KARDIAM GmbH and a range of inversion drums and accessories from Hurricane Trenchless Technologies GmbH.







## MBW EUROPE

Since 1987, MBW Europe has been manufacturing a range of Utility products to assist with locating, excavating and reinstating utility services. These products can help to reduce Hand/Arm vibration and injury to the operator.

The M10d magnetometer can be used to pinpoint the location of buried metallic mains to minimise the size of excavation. The 'Hornet' rock drill has been designed to significantly reduce the Hand/Arm vibration associated with using rock drills. The Hornet Rock Drill has also been designed to allow the operator to use the drill when stood in an upright position which can help prevent lower back injuries. The Hornet is compact, lightweight, easy to move and it takes the drill out of the hands of the operator to reduce exposure to Hand/Arm vibration.

MBW Europe will also be showcasing the Soil Pick with all the available accessories. Over the years this tool has become the excavation tool of choice for many utility contractors. It has been designed to loosen the soil safely when excavating around pipes and cables. It utilises a high-speed stream of compressed air so it can be used safely to expose buried pipes, cables and tree root structures without damage. The Soil Pick can also help to reduce Hand/Arm vibration and the risk of injury from cable strikes.

In addition to the standard unit there are a number of accessories to support the use of the Soil Pick. There are a range of different extension barrels and angled nozzles to enable the operator to loosen material from under and around services. The latest addition to the accessories is a water attachment that allows the Soil Pick to be used as a pressure washer to clean the work area once the job is complete.

## RADIUS TRENCHLESS

The Radius Trenchless range is a heavy-duty range suitable for installation by Mole Ploughing and Horizontal Directional Drilling where high tensile properties and increased abrasion resistance are required.

Radius sub-ducts are designed for cable blowing and pulling and are made from HDPE (High-Density Polyethylene) and feature class-leading permanent co-extruded low friction HDPE inner lining for optimised cable installations.

Robust and flexible, Radius sub-ducts offer high performance in complex installations (e.g. many bends and gradients).

The sub-ducts are available with ribbed or smooth inner bore according to user preference and can be supplied pre-rope or pre-cabled and supplied in continuous lengths on single-way drums or multi-way drums to increase ease of installation and minimise cost. In addition, Radius Trenchless offers a comprehensive range of fittings and accessories including bends, connectors, spacers, seals and access chambers.

13-15 September 2022 East of England Arena &amp; Events Centre, Peterborough



## SUNBELT RENTALS

Whatever your sector, Sunbelt Rentals has the solution. Whatever the project, the company has the expertise, whatever the challenge, Sunbelt has the 'how'. As one of the UK's largest rental equipment providers, the company is big on all of the things that matter to customers, from equipment and service to sustainability and trust.

Visit the stand to see first-hand our latest investments, including:

- SmartSite: Smart Torque and new Pressure Testing Solution
- Lightweight composite body winch
- Efuze battery-powered welding
- Deep Green – smart, eco-friendly welfare

- Electric excavator
- Latest in ground penetrating radar
- Fibre blowing equipment
- Battery storage unit
- And much more!

It is the age of Data and the company is introducing the equipment and technology that will allow customers to pave the way. The all-new Pressure Testing solution creates valued quality assurance in pipeline commissioning using the latest technology and custom-built app which coupled with the Smart Torque wrench adds further quality assurance data for customers, not just in mechanical jointing but also vehicle maintenance.



13-15 September 2022 East of England Arena &amp; Events Centre, Peterborough

## ULC TECHNOLOGIES

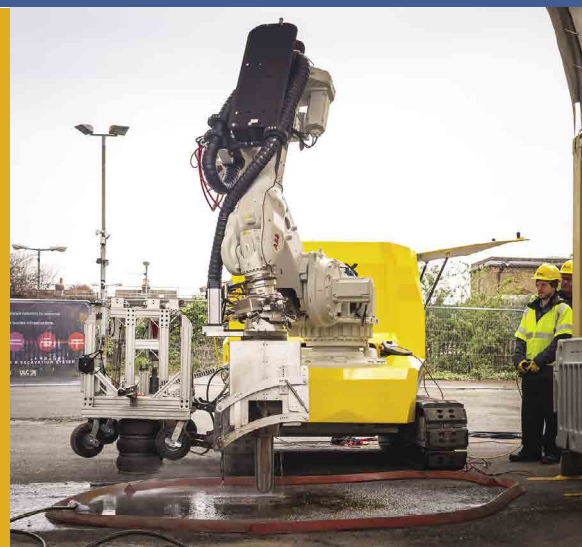
ULC Technologies is set to showcase the Robotic Roadworks and Excavation System (RRES), a world-first robotic system to revolutionise methods of excavation, utility interaction and reinstatement, which made a UK debut earlier this year to conduct field trials on SGN's gas network.

The system uses a precision robotic arm with swappable tooling, integrated artificial intelligence, and machine vision and utilises soft-touch excavation tools. RRES was designed with an 'open-source' design to support multiple industries overcome the typical challenges associated with roadworks, promising benefits including improved worker safety, less CO<sub>2</sub> emissions, and a smaller physical footprint than traditional excavation methods.

Last year, the RRES system was successful in receiving the RBR50 award in the Application & Market Innovation class for utilities, and the 'Innovative Product' award at the UKSTT Awards.

ULC Technologies will also be showcasing spin-off technologies associated RRES which enable a smooth transition for implementing the systems capabilities into business-as-usual activities. This includes VEST, a vacuum excavation toolhead that uses supersonic air nozzles to agitate and break up the soil, and AUSMOS, a transportable below-ground asset mapping robot.

ULC staff will be on hand to demonstrate its new systems and talk to event delegates about the opportunities in developing new tooling and use cases for the platform to overcome challenges across multiple industries.



## WARDSFLEX

At Wardsflex the company continues to expand its range of products to make the drainage engineer's job easier. With a recent successful launch of the Milwaukee range of cordless drain cleaning spring machines, there are now many more options to suit the variety of work. Additionally in the cordless range there are drain tracing, CCTV, wet and dry vacs and stick pumps. Milwaukee products are powerful, heavy duty and very complementary, with the advantage of not having electrical leads to keep organised.

On the indoor stand, Wardsflex will also have its other main brands of Ridgid and Draper tools as these are still popular and desirable. Look out for the K9 series Flexshaft as this offers a great low-cost way to clean roots, scale and corrosion from the inside of pipework.

All of the company's original and essential Wardsflex manufactured tools and equipment are still popular and usually available for next working day delivery, including Drain Rods and tools, Pipe Testing and Repair, Surveying and Tracing equipment.

The company's online catalogue is the most comprehensive listing for drainage tools in the country with well over 1,200 products and this is regularly updated.





# EXPERTS IN LOCATING AND INSPECTION

DISCOVER MORE AT OUR NO DIG LIVE BOOTHS



ULC Technologies collaborates with companies to solve complex industry challenges with innovative technology development.

Explore our robotic solutions for excavation and mapping at No Dig Live 2022, including planned demos of the Robotic Roadworks and Excavation System (RRES) and our pipeline inspection crawler systems.

**OUTSIDE BOOTH 49**

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

## RADIODETECTION®

Radiodetection provides best-in-class tools and solutions that are designed to prevent damage, manage assets and protect lives.

Explore our range of products, including Precision Locators, Cable Avoidance Tools, Magnetic Metal Locators, GPR and more. Our Digital Solutions will also be showcased at the event, where live demos will be hosted by our Product Experts.

**INSIDE BOOTH 32**

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



## PEARPOINT®

Now provided by CUES, Pearpoint products are designed for pipeline inspection and repair. Discover the most rugged and reliable sewer inspection cameras and equipment in the industry.

Based outside with ULC, explore our flexiprobe and flexitrax™ inspection systems with the addition of our dedicated inspection vans.

**OUTSIDE BOOTH 49**

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



13-15 September 2022 East of England Arena &amp; Events Centre, Peterborough



## GERMAN PAVILION

As well as the individual company exhibits above, Germany is being represented in a special Pavilion.

Germany will participate at No-Dig Live with a 'German Pavilion' offering a professional brokerage service to help to establish contacts with German companies and comprehensive information on Germany as an important business location.

The German presentation is sponsored by the Federal Ministry for Economic Affairs and Climate Action in cooperation with AUMA-Association of the German Trade Fair Industry. The German presentation is also supported by GSTT-German Society for Trenchless Technology.





13-15 September 2022 East of England Arena & Events Centre, Peterborough

# VACUUM/SUCTION EXCAVATION AND TANKERS





13-15 September 2022 East of England Arena &amp; Events Centre, Peterborough

## BUCHER MUNICIPAL

Bucher Municipal will offer its range of new and impressive machinery. Showcasing the Flexline with HyrdoFlex technology, the all-new fully electric CityFlex C40e, and our powerful SuperRecycler, there will be something there that will wow everyone.

With a range of possible applications, easy operation, high-quality construction, and the highest performance in both urban and industrial tasks, the Flexline is the ultimate multi-use unit. Made to last with boilerplate steel and an 8-step paint process, this unit can withstand the harshest conditions every time.

Electrify sewer cleaning with the innovative C40e. The powerful 265 kW battery has a range of 200 km and up to 3 hours of operational time. With the ability to recharge to full in as little as 2 hours, range anxiety is a thing of the past. The small size of the Bucher CityFlex C40e makes it possible to access those otherwise inaccessible urban areas easily and safely.

The powerful SuperRecycler conserves water through its innovative movable partition and world-leading recycling system. This system increases operational efficiency by 55%, reusing water from the sewer itself, and (once filled) the unit is completely self-sufficient. The additional pump mounted onto the SuperRecycler aids in flood prevention, over-pumping up to 1½ miles.





Driven by better

**BUCHER**  
municipal



55% increased  
operational efficiency



Ultimate  
Recycling Power



Boiler Plate Steel



Up to 1.5 mile  
overpumping capabilities

## The Bucher Municipal **SuperRecycler** CR140



**World-leading Recycling System** - Recycles waste water



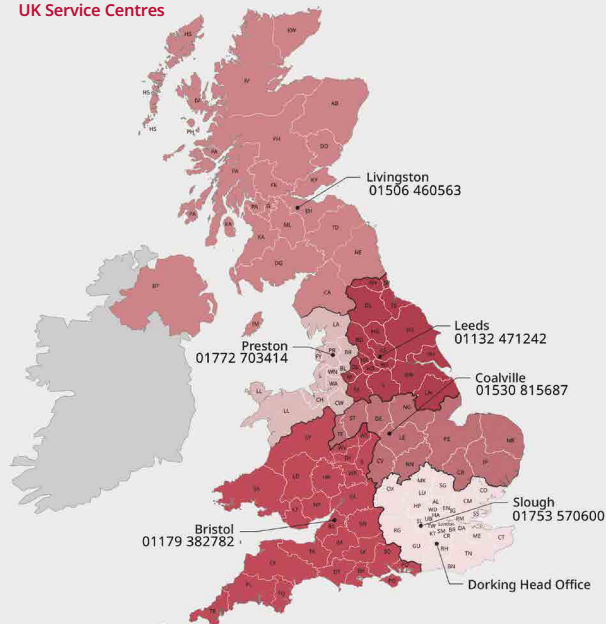
Find out more about the benefits of Bucher's municipality range

**Call us on 01306 884722 | [buchermunicipal.com](http://buchermunicipal.com)**

### Your local **service centres**

Sweepers, Winter Equipment & Sewer Cleaners

UK Service Centres



Driven by better

### Shop our full range of machines



#### Sewer cleaners

| Recyclers | combination |  
| First response |



#### Winter maintenance

| Spreaders | Snow blowers |  
| Snow ploughs | Electric spreader |



#### Truck mounted sweepers

| Single or twin engine |  
| Rear suction | Fully electric |



#### Compact sweepers

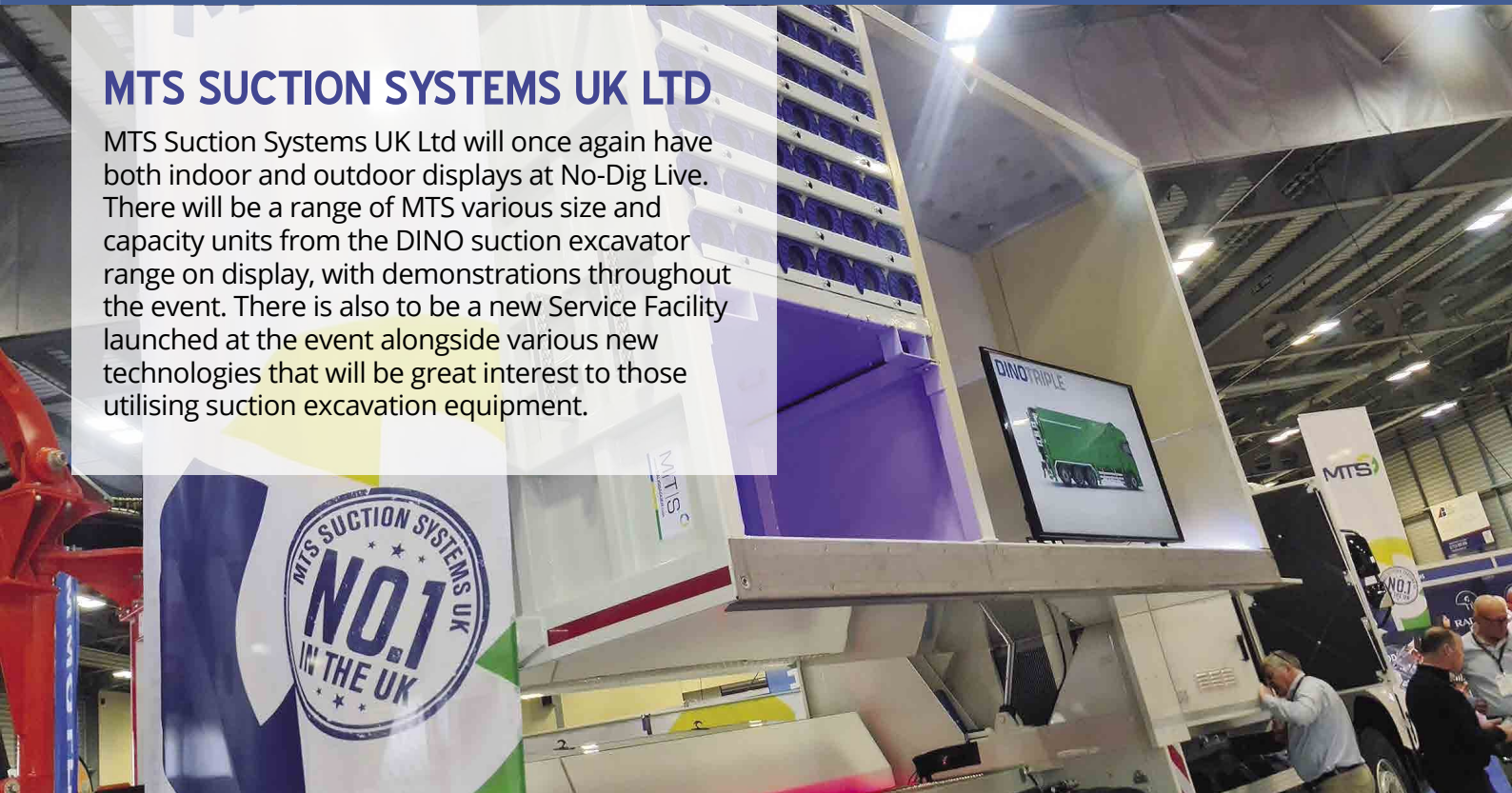
| Articulated or fixed | mid-size |  
| Fully electric |



13-15 September 2022 East of England Arena &amp; Events Centre, Peterborough

## MTS SUCTION SYSTEMS UK LTD

MTS Suction Systems UK Ltd will once again have both indoor and outdoor displays at No-Dig Live. There will be a range of MTS various size and capacity units from the DINO suction excavator range on display, with demonstrations throughout the event. There is also to be a new Service Facility launched at the event alongside various new technologies that will be great interest to those utilising suction excavation equipment.



## RSP UK

RSP, a UK award-winning Suction Excavator manufacturer is a leader in innovation and safety when it comes to excavation needs. The use of suction excavators is 16 times more effective than traditional methods of excavation. The company's excavators are designed with customers in mind, including: the latest technology, optimal solutions and safety specifications. RSP has a wide range of solutions available to suit all needs and requirements for your business.





13-15 September 2022 East of England Arena &amp; Events Centre, Peterborough



## STOCK GROUP

Born through the remanufacturing of chassis-mounted road sweepers, Stock Group has evolved into a leading British manufacturer of New Heavy-Duty Road Sweepers and Suction Excavators. Stock Sweepers is the only British-owned and operated road sweeper manufacturer in the world. The company prides itself on building the highest quality machines available on the market, its mission will never be to build the most road sweepers but to build the most robust sweeper possible.

In 2019 Stock Excavators completed a full refurbishment of a fire-damaged Excavator with the ongoing support and ingenuity from the Stock Group, it developed and designed components utilising in-house technologies, whilst remaining focused on designing a machine with a maximum duty cycle. Stock Excavators now manufactures suction excavators and will continue to remain true to the Stock Groups vision which is building quality machines that are durable and long-lasting with the minimum downtime for our customers.

Stock Re-Manufacturing has been the UK's premier municipal and construction re-furbishing company since 1998. It specialises in the complete refurbishment and re-mounting of Stock Sweepers and Johnston Sweepers, it also offers complete refurbishment services on vacuum and suction excavators, by re-using certain parts of the equipment the company is able to cut the use of raw materials and reduce the overall carbon footprint!

In 2020 Stock Group fully launched Stock Rentals into the marketplace and is set to become the leading contract hire provider of specialist Vacuum Excavation equipment to the UK marketplace, aiming to make Safe Excavation available and affordable to all.





13-15 September 2022 East of England Arena &amp; Events Centre, Peterborough



## TECHNICS GROUP

Technics Group is looking forward to exhibiting for the first time at No Dig Live 2022. Technics Group is a geospatial consultancy with a collaborative approach to providing land, building, utility and BIM surveying across the UK and internationally. With over 30 years' experience in surveying, Technics is driven by reducing project risk and delay through delivering the best results in surveying accuracy, utility reporting and information output throughout the lifecycle of a construction programme.

Technics will be promoting its Vacuum Excavation service to attendees. Complementing its expert utility mapping solutions, the Vacuum Excavation service provides a low impact, non-destructive solution for visual inspection of the exact positions of buried services using the safest technology compliant to PAS 128. Using both EML (electromagnetic locators) and GPR (ground-penetrating radar) equipment along with vacuum excavation technology significantly reduces the need for manual handling and hand digging. Technics' solution is therefore far more efficient, delivering results quickly while reducing risks to site personnel.

Lee McNichol, Senior Project and Suction Excavation Manager at Technics said: "We are really looking forward to attending No Dig Live with our Vacuum Excavation Truck to demonstrate how this service and the technology we use allows us to stand out from other providers in the industry."



## WILLIAMS TANKER SERVICES

With No-Dig Live 2022 just around the corner, Williams Tanker Services Limited (WTS) is proud to once again take part. 2021's show was a roaring success. After months of phone calls and online presentations to introduce the Cappellotto brand, it was a superb opportunity after lockdown for operators to see our equipment first hand and ask questions, and for our staff to hear feedback.

Since last year's show the brand has grown significantly in the UK, and the company's equipment can now be seen across the country, as far north as Aberdeen and as far south as Kent. Williams Tanker Services will be at No-Dig Live 2022 this year in full force, showcasing the breadth of range of its equipment and its unrivalled build quality. WTS and Cappellotto staff will be on-hand demonstrating exactly why Cappellotto is Europe's leading vacuum tanker manufacturer and why WTS are the ideal UK tanker partner.



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# CONTRACTORS

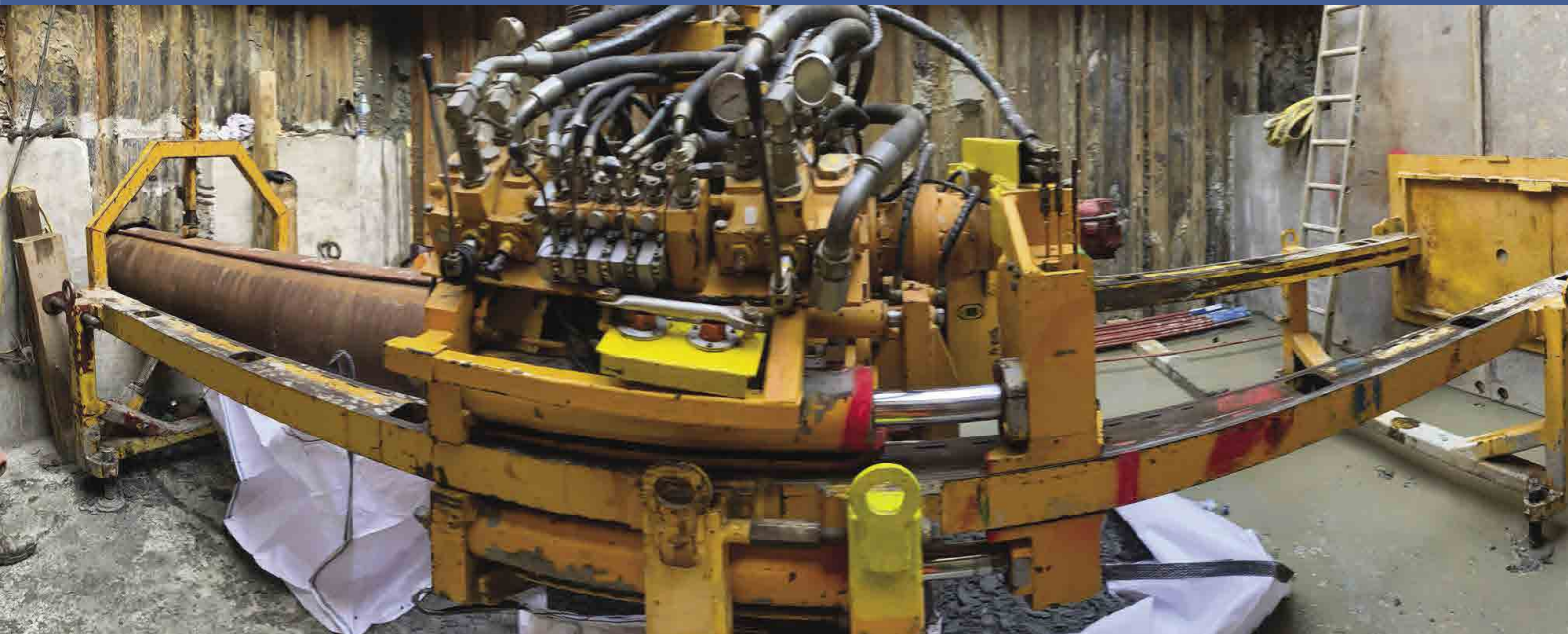




2022

NO-DIG LIVE

13-15 September 2022 East of England Arena &amp; Events Centre, Peterborough



## ALLEN WATSON

Established in 1984, Allen Watson Limited (AWL) initially started providing Trenchless Services installing Water, Gas and Electricity Cable Ducts to Groundwork Contractors and building firms in the South East by Horizontal Directional Drilling.

The world of construction and service provision is changing, public and private sector organisations are working more closely together, joint ventures are expected to deliver end-to-end solutions, new forms of contract's enable collaborative supply chains.

AWL has established strong relationships with supply chain partners in order to minimise risk and deliver projects fault-free, on time and budget.

As the company expanded, so did the expertise and range of equipment, to incorporating advanced design specifications provided by AWL engineers based on the years of experience gained as a No-Dig trenchless solutions specialist.

AWL engineers can add value to a project by early involvement with the design and technical recommendations for a safe, innovative and cost-effective solutions combined with the highest standards of health and safety, customer care and environmental responsibility.

The Cappagh Group of Companies completed the acquisition of Allen Watson Limited in 2019 but the core values remained the same:

- high calibre site project planning
- work closely with clients keeping high business principles and values
- focus on innovation, continue to strive and develop new solutions.

AWL can offer a 'one stop shop' for trenchless construction, from design assessments to full turn-key packages that can incorporate shaft construction, pipeline installation through to commissioning.

Installation disciplines which can be utilised by AWL using it's fully trained and qualified workforce include

- Guided Auger Boring (GAB)
- Horizontal Direction Drilling (HDD)
- HDD Rock Drilling
- Pipe Ramming
- Pipe Jacking
- Pipe Bursting
- Thrust Boring
- Timber Headings

AWL is fully accredited to RISQS, UVDB Verify and CQMS Safety Scheme.

2022

NO-DIG LIVE

13-15 September 2022 East of England Arena &amp; Events Centre, Peterborough



## MCALLISTER

McAllister is one of the leading providers of trenchless or No-Dig services in the UK and Ireland from offering services such as CCTV surveys, CIPP, guided auger boring, pipejacking through to civils and shaft sinking.

Its extended portfolio of services is offered to Utility, Construction, industrial, Commercial and Residential customers across Great Britain and Ireland. Always offering customers the most comprehensive, cost effective and innovative repair solutions, the core business includes:

- CCTV, Line and Level, Manhole Surveys
- Pipe cleaning
- Tankering/Flow Management
- GPS mapping
- Pipe (gravity and pressure) and manhole rehabilitation
- Civils (excavations, guided auger boring, pipe jacking, directional drilling etc.)
- GRP segmental lining

As the company is celebrated its 50<sup>th</sup> year in 2021, it continues to strive forward responding to the demands of clients and their customers and reacting to the dynamics of the marketplace. McAllister plans to continue to ensure that it remains at the forefront of the industry as a specialist supplier of environmental services through continued investment, risk-taking, innovativeness and its ability to deliver consistently for customers.

The company is delighted to be at No-Dig live for the 8<sup>th</sup> consecutive show and is looking forward to catching up with existing clients and just as important, meeting up with new ones.

## ONSITE

Established in 1977, OnSite is part of SSI Services (UK) Ltd, a division of South Staffordshire Plc and, as a result of a sustained growth via strategic acquisition, organic expansion and internal integration, has become one of the UK's leading providers of specialist contracting services.

As part of this capability, OnSite retains a dedicated sewer rehabilitation division and has over forty years' experience in Cured in Place Pipe (CIPP) and Cured in Place Repair (CIPR) of sewers, drains and culverts, nationally and internationally utilising a variety of techniques.

Drawing on unrivalled experience, coupled with specialist equipment and highly skilled personnel, OnSite has a proven track record in the successful delivery of projects and contracts across a broad spectrum of market sectors, including some of the most demanding industrial environments.

Onsite will be showcasing some of its recent large diameter sewer lining installations, specialist pressure (rising) main liners and the Aqualiner - fully structural pipe renewal lining process at the No-Dig Live event.



2022

NO-DIG LIVE

13-15 September 2022 East of England Arena &amp; Events Centre, Peterborough

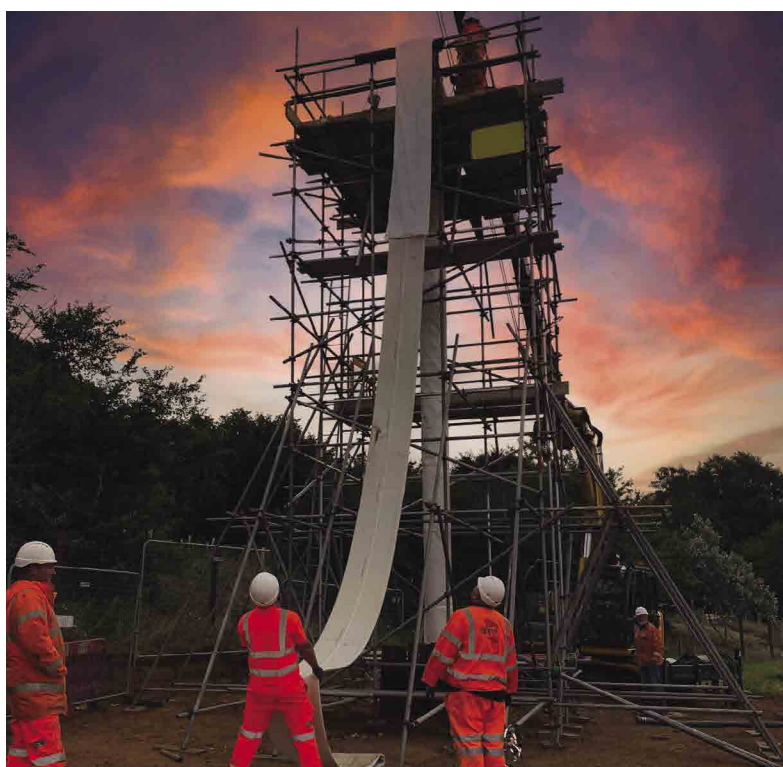
## PUBLIC SEWER SERVICES

Constantly leading the way in sourcing and developing bespoke solutions to the more intricate No-Dig /Less-Dig projects. Public Sewer Services (PSS) will be exhibiting at No-Dig Live.

On the stand this year PSS will have samples of the recently WRc accredited Condor Pipe system which enables pipe bursting to be undertaken from access chamber to access chamber without the need for additional excavations. The company will also be showing several solutions for the rehabilitating of pressure pipelines/rising mains, including Wavin Compact Pipe, Primus Line and the UV Cured Saertex and Impreg CIPP system.

PSS will have the latest CCTV system with a laser profiling function along with information on its fully automated manhole rehabilitation system.

The company's services include, but are not limited to: CCTV Surveys (including Laser Profiling ), Localised Structural Repairs, CIPP (All types), Slip Lining, HDD, Impact Moling, Pipe bursting, Civils and automated Manhole rehabilitation.





2022

NO-DIG LIVE

13-15 September 2022 East of England Arena &amp; Events Centre, Peterborough

## RADIUS SUBTERRA

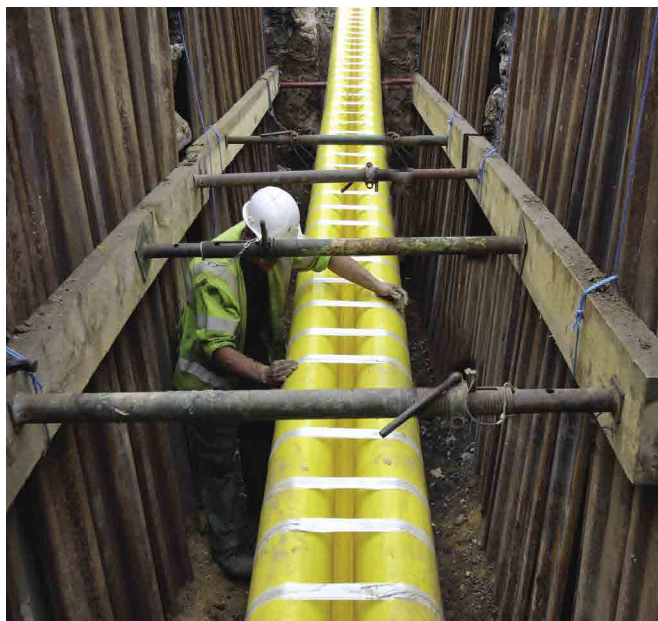
Radius Subterra will be showcasing its full range of pipeline products and services.

On the stand will be PE liners for pipe relining using No-Dig installation, spray-lining from Radius Systems for pipe rehabilitation, tier one service products for gas, a full range of pipeline engineering solutions and much more. There will be representatives from both Radius Subterra and Radius Systems on the stand ready to answer any questions whilst visitors have a coffee.

Radius Subterra offers unique technologies to facilitate the diversion, alteration, extension or testing of pipeline networks and innovative techniques for the replacement of leaking or damaged pipeline infrastructure. That is why its services are based on technologies that offer maximum efficiencies, solutions that are quick to install and operations completed to minimise cost and disruption.

The company works with gas and water utilities, developers, with clients in the multi-utilities sector, and private network owners operating in different spheres, including power stations, the mining and the nuclear sectors. Its strength is its broad experience in pipeline engineering technologies and its people are the backbone of the business.

So, as can be seen from the foregoing, there is a great deal to do in just three days. Make your plans and diary your time. Enjoy the show!







WESTRADE GROUP LTD

# NO-DIG EVENTS

International No-Dig events brought to you by the industry's world experts



## NO-DIG LIVE 2022

16th Biennial Exhibition, Live Demonstrations and Technical Sessions

**13-15 September 2022**

East of England Arena and Events Centre, Peterborough, UK

**14 September 2022** - UKSTT Gala Dinner & Awards Ceremony in association with Westrade

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



## INTERNATIONAL NO-DIG HELSINKI 2022

ISTT's 38th International No-Dig Conference and Exhibition

**3-5 October 2022**

Messukeskus Helsinki Expo and Convention Centre, Helsinki, Finland

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



## TRENCHLESS TECHNOLOGY INTERNATIONAL SEMINAR

**30 November 2022**

Westin Hotel, Santa Fe, Mexico

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



## TRENCHLESS ASIA 2023

**17-18 May 2023**

Kuala Lumpur Convention Centre, Malaysia

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



## TRENCHLESS EGYPT 2023

Part of the Trenchless Middle East Portfolio  
**September 2023**

Cairo

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



## INTERNATIONAL NO-DIG MEXICO 2023

ISTT's 39th International No-Dig Conference and Exhibition

**17-19 October 2023**

Expo Santa Fe, Mexico



## INTERNATIONAL NO-DIG DUBAI 2024

ISTT's 40th International No-Dig Conference and Exhibition

**November 2024**

Dubai World Trade Centre, Dubai

