

Overview of Solutions



Trenchless technology was introduced in the 1970's, with Insituform as pioneers. This revolutionary method of working underground means that there is minimal disruption to your surroundings, community or workplace. Over the years we have developed techniques to ensure that we are still at the forefront of this technology. Our cost effective tried and tested solutions are regarded as the finest in the industry. Through research and acquisitions we have built on our range of solutions, until we can now proudly claim to be the most comprehensive trenchless technology provider in the world today.

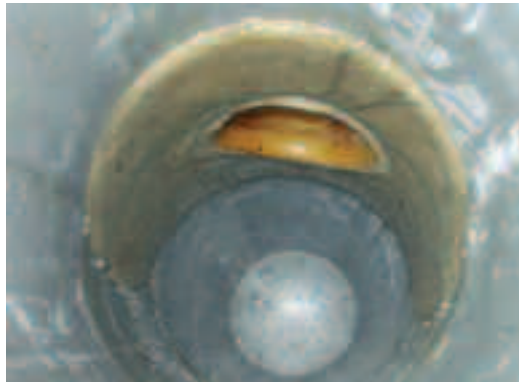
Insituform® CIPP



Insituform® CIPP (Cured in Place Pipe) is a true no-dig, the original and still our most widely used trenchless method. A resin-saturated coated felt tube is inverted into a damaged pipe using either air or water and then cured with steam or hot water. This results in a seamless pipe-within-a-pipe, tailor made up to 2.4m in diameter. We offer the most cost effective and technically viable solution.

CIPP has a life expectancy of up to 100 years and two installations are possible in one day. We have rehabilitated more than 21,000km.

Localised Repairs, Top Hats & Lateral Lining



Working from inside the host pipe a short structural repair sleeve is applied to circular sewers from 100-750mm diameter. Used on localised cracks, fractures and holes a resin impregnated fibreglass sleeve is wrapped around a packer which is pulled into position and inflated, it is then cured into a short section of liner.

The service lateral can be sealed and repaired by using our specially designed top hat and lateral lining process. Resulting in a structurally sound and leak tight connection.

Also available ROBOTIC CUTTING.

Infiltration Liners



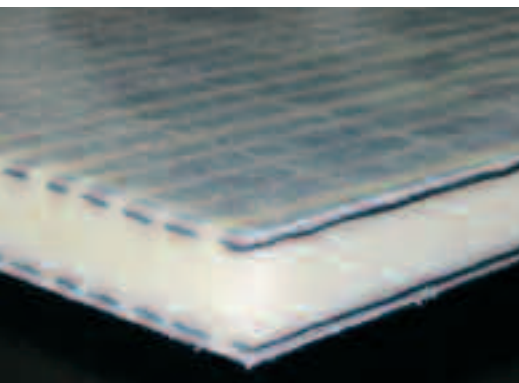
This system was developed to eliminate water infiltration entering into the sewer system through cracks, fractures and faulty joints.

Using standard non-woven fabric liner tube impregnated with Sealiner resin to achieve zero shrinkage between the liner and host pipe during the curing process. Effectively sealing the sewer.

Available in a range of diameter from 100mm upwards with installation lengths of up to 200m possible.

WRc test certificated.

iPlus Composite™ Pipe



A higher strength, stiffer and thinner CIPP product for rehabilitation of gravity sewers for circular and particularly non circular pipes from 600mm to 2400mm dia.

Reinforced fibres are integrated into the pipe wall to form a sandwiched laminate structure with improved physical properties. Insituform iPlus Composite™ pipe provides a fully structural liner with about half the wall thickness of conventional CIPP products.

The improved flexural strength makes it an excellent choice for rehabilitating egg-shaped or flat bottom arch pipes.

GRP



First developed in 1979, our GRP (Glass Reinforced Plastic) lining creates an impermeable, high strength structure, with greatly enhanced flow characteristics. Suitable for pipes from 750mm to 2000mm in diameters, it offers a comprehensive range of shapes to maximise on the flow capacity.

Constructed using a hi-tech gel coating, it is resistant to most chemical effluent, sewage and ground conditions.

Danby™ Spiral Wound



Used for the renovation of large diameter pipe, culverts and chambers. The Danby™ pipe renovation system is installed through the existing manhole without the need for excavation. Requiring only minimal working area above ground, a uPVC strip is placed against the internal wall of the existing pipe to form a close fit tube. Grout is then injected into the annular space to form a strong composite pipe section.

This System is an excellent long-term solution for renovation of pipes of any shape above 900mm in diameter.

IntergROUT



In use since 1979, our IntergROUT renovation system seals all leaks and restores the compressive ring strength of brick and masonry arches. A man-entry technique, this method of filling the cracks and voids with high strength polymer reinforced grout has been proven to be effective in all sizes of sewer.

A cost effective solution to problems caused by erosion and breakdown of the original structure.

Also available; FERROCEMENT, GROUTING & LEAK SEALING.

Survey & Cleaning



Our Survey and Cleaning service is one of the most reliable and thorough available. Using the latest equipment we offer from standard CCTV to complex man-entry surveys. We can clean all sizes including chambers and culverts.

Our teams are trained to the very latest industry requirements and our years of experience give us unparalleled knowledge in all these areas.

Guided Auger Boring



Guided Auger Boring is a non man-entry procedure for installing new sewers and waste pipes. Using a remote-controlled, laser-guided boring machine to tunnel and install a new pipe simultaneously.

Particularly effective beneath city centres, busy roads and railways, it can be used on pipes from 100mm to 900mm in diameter and up to 30m deep.

Also available PIPE JACKING & MOLING.

Shaft Construction & Manhole Renovation



Specialising in the construction of concrete segmental shafts, we are able to work up to 30m in depth and 8m in diameter.

The refurbishment of manholes is particularly cost-effective when addressing problems of leakage, structural decay and safety of access.

Using the appropriate materials and techniques, such as polymer reinforced grouts and installation of vertical access structures, we bring manholes up to specification.

Also available; TIMBER HEADING, SHEET PILING & DEEP EXCAVATION.

Insituform Pressure Pipe Lining®



A structural or semi structural custom-engineered pressure product, designed to withstand a wide range of system operating conditions, installed using the cured-in-place-pipe (CIPP) process.

Insituform Pressure Pipe Lining® uses modified felts and resins from the standard CIPP process to solve pressure pipe leakage and corrosion problems and to extend the useful service life of your pipe.

Sizes from 200mm up to 1500mm diameter with a pressure rating up to 14bar. Over 90km installed.

Pipebursting

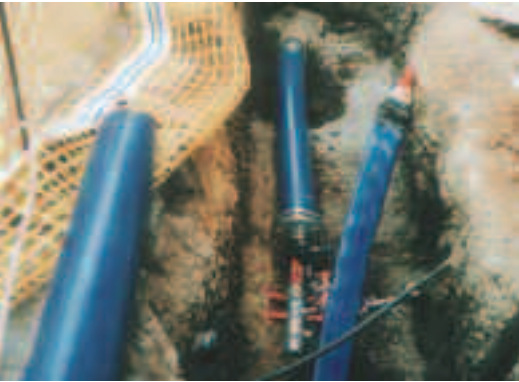


Pipebursting is a cost-effective method of replacing damaged pipes. Replacing pipes from 50mm to 800mm, with new pipes made of polyethylene or PVC.

Typically working from within existing manholes, the process bursts and disperses the original pipe and installs a new pipe in its place.

Insituform offer various techniques and methods to suit project requirements.

Thermopipe®



The Thermopipe® process is a relining system that meets all the essential requirements for both clean and dirty water applications. Available in diameter from 60mm to 300mm with up to 16 bar capability and can be installed in lengths up to 350m. Over 220km has now been installed. The Thermopipe® product is a circular woven, high tensile polyester reinforced, polyethylene lining system, providing a flexible jointless, long term and leak-free solution with drinking water approval.

Installation time is fast and on-site disruption is minimal

Polyfold™ & Polyflex™ Close Fit PE Lining



Renovation of both clean and dirty water pressure mains from 50mm to 1200mm diameter using polyethylene (PE) pipe.

Installation process involves temporary reduction of the PE pipe diameter by one of two methods. The liner (in its reduced diameter state) is then inserted into a cleaned host pipe and then reverted to its original diameter to form a close-fit PE lining.

These close-fit PE lining systems provide either a structural liner or a corrosion barrier to stop leaks, span holes and leaky joints and inhibit further internal corrosion.

Installation lengths up to 500m possible.

iTap™



The Insituform Blue iTAP™ process is a robotic method of reinstating service connections from inside the main. Traditionally, holes were excavated at each service connection so that service lines could be reconnected when a host main was renewed with a trenchless process. The iTAP™ process allows you to save time and avoid the added costs and disruption of digging.

Using innovative technology, an operator locates the service connections from inside the lined main. A robotic cutter is then used to cut through the liner at each connection. A water-tight, pressure-rated mechanical seal is achieved when a self-tapping T-Nut and gasket are installed in each service connection.



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