



PERCO. KEEPING THE WORLD MOVING...

trenchless solutions for highways





PERCO. HELPING TO KEEP TRAFFIC

NO DELAYS, NO DISRUPTION. PERCO REHABILITATES & INSTALLS UNDER-CARRIAGEWAY SERVICES WITHOUT AFFECTING TRAFFIC.

Increasing traffic volumes and demands for maintaining traffic flows at optimum levels, particularly at peak times, reduces the opportunities for carriageway closures, even for essential works. Works which can be carried out safely without disrupting traffic offer a realistic and cost-effective alternative to carriageway closures.

Highway drainage, culverted watercourses, cable ducts, telecommunications and traffic management systems can all be maintained, updated, replaced or installed using trenchless technology. Trenchless technology causes less disruption and pollution than open-cut alternatives and works can be carried out with affecting traffic flows.



A cable duct being installed by optically guided auger boring from a two metre diameter launch shaft. The 457mm diameter steel sleeve was installed to take six 150mm diameter cable ducts.



Tunnelling was our only option; Perco solved the problem very professionally in a short space of time, allowing us to finish the project on programme. They said they could do it and they did.

Graham Horwood, Project Manager
Vivid



EcoCIPP™ lining

EcoCIPP is a self supporting, UV cured CIPP (Cured in Place Pipe) liner designed for use in culverts, storm drains and gravity pipes where existing flows need to be maintained. EcoCIPP's UV curing process is fast and pollution-free, eliminating the harmful, carcinogenic styrene emissions associated with hot water-cured CIPP liners. EcoCIPP's outstanding elasticity, flexural strength and water tightness make it perfect for use in badly damaged pipes and where future settlement is a concern.

Directional Drilling

Where pressurised pipes and cable ducts need to be installed under roads or along verges, directional drilling provides an economical installation solution. Many different types of pipe materials can be installed in diameters ranging from 50mm to 1000mm. Pipe lengths of 1000 metres can be achieved, with an accuracy of +/- 100mm. Directional drilling is suitable for a wide range of ground conditions including clay, sands, chalks, ballasts and gravels. Rock drilling can be used for hard ground.

The benefits

Perco's experience in the highways sector and its wide range of trenchless techniques give highways engineers many benefits. Perco works flexibly to meet client requirements and can operate on a sub-contractor basis or offer complete turnkey solutions including feasibility studies, scheme design, enabling works and reinstatement post works.

Unlike many other trenchless technology contractors, Perco can provide a range of techniques to meet different ground conditions, site access and land availability, meaning that we can give unbiased advice about the best solution for a given situation.

- **Culverts, pipelines and cable ducts can be rehabilitated with minimal impact on traffic flows**
- **Severely deformed and partially collapsed culverts and pipes can quickly be returned to fully operational condition**
- **Perco holds ISO9001 and is an Investor in People**

MOVING...

Upsizing, renewal and installation

Perco has unrivalled expertise in trenchless pipe rehabilitation, replacement and upsizing. Our techniques are ideally suited to land drainage as they can be operated with minimal environmental impact or noise pollution, negating the need for newly quarried materials and reducing the volumes of waste for landfill to a fraction of open cut alternatives.



Pipe cleaning and CCTV

We offer a range of pipe cleaning techniques including desilting, pigging, high pressure jetting and debris removal to return culverted water courses back to full capacity. We also carry out CCTV surveys and condition reports.



Pipe bursting

Where existing gravity storm drain pipes or culverts need to be replaced or upsized, Perco offers a range of pipe bursting solutions capable of upsizing pipes from 75mm ID to 1200mm ID. Perco's miniburst, manhole bursting and Expandit™ techniques can be operated from existing manholes.

Auger boring

Auger boring is ideal for installing gravity pipelines. It is also ideal for installing cable ducts in locations where access is restricted. Where absolute accuracy is required, guided auger boring routinely achieves tolerances of +/- 40mm in a 50 metre shot.



Shaft sinking

We install shafts to facilitate pipe installation and for use as manholes and interceptors. Our specialist engineers can also install shafts under water in locations where the water table is very high.





Complete turnkey solutions

At Perco we deliver complete turnkey solutions for every type of trenchless technology project. We provide advice and full scheme design, preparation of all necessary enabling and reinstatement works, installation, commissioning and ongoing maintenance.

Our approach to trenchless technology gives clients and contractors greater advantage and control over project completion schedules.

Auger boring

Directional drilling

Microtunnelling

Pipe bursting

EcoCIPP™ lining

PressureCIPP™ lining

Shaft sinking

Pipejacking & tunnelling

Pipe cleaning

CCTV

For more details on how Perco can help YOUR network please call:

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