



**Directional Drilling and Trenchless Technology Services**



**FlowTEK HDD UK Limited**



# Specialist contracting services in the field of directional drilling



## About FlowTEK

Based in Doncaster, FlowTEK is highly skilled in offering directional drilling contracting, as well as a range of trenchless technology and auger boring services.

Customers are safe in the knowledge that they will get a complete turnkey package that can either be at a rate per metre on line work or on a fixed price basis on specialist crossings.

The services above only cover part of the offering from the Company, who can also give customers labour support, open cut methods, help on water mains, gas mains and sewers, butt-welding, pipe bursting and removal of drilling slurry.

FlowTEK is an Achilles UVDB-registered and CHAS-accredited organisation and with

Link Up approval too, clients know that a high standard will be provided in all work carried out.

Trenchless solutions are becoming even more sought-after than ever before because they mean that the disruption and inconvenience caused by open cut methods to any given business community or the general public in general can all be avoided.

In addition, FlowTEK undertake directional drilling to install cables and pipes underground. Again, this means disruption is avoided and work can take place underneath the likes of roads, railways, rivers and airport runways without any disturbance to surface structures.

The Company is in safe hands with Chris Preston as Managing Director who has previously had huge experience in running a large number of drilling operations that ranged from line work contracts, to specialist crossings.

Seeing flaws in the market that could be easily resolved, Chris used his vast experience to set up FlowTEK, and the Company has gone from strength to strength since its inception.

The reputation of FlowTEK is such that a host of noteworthy companies have benefited from the services offered. This includes but is by no means limited to, Scottish & Southern Energy, Barhale - Anglian Water, the National Grid, Optimise for Thames Water, Severn Trent Water, BAE Systems, Northern Gas Networks, Morgan Sindall, the Highways Agency, Network Rail, Western Power and J Murphy & Sons Ltd.

## Drilling methods

The directional drilling methods used by FlowTEK comprise of drilling a pilot bore from the required start point and along a predetermined route to the required completion point.

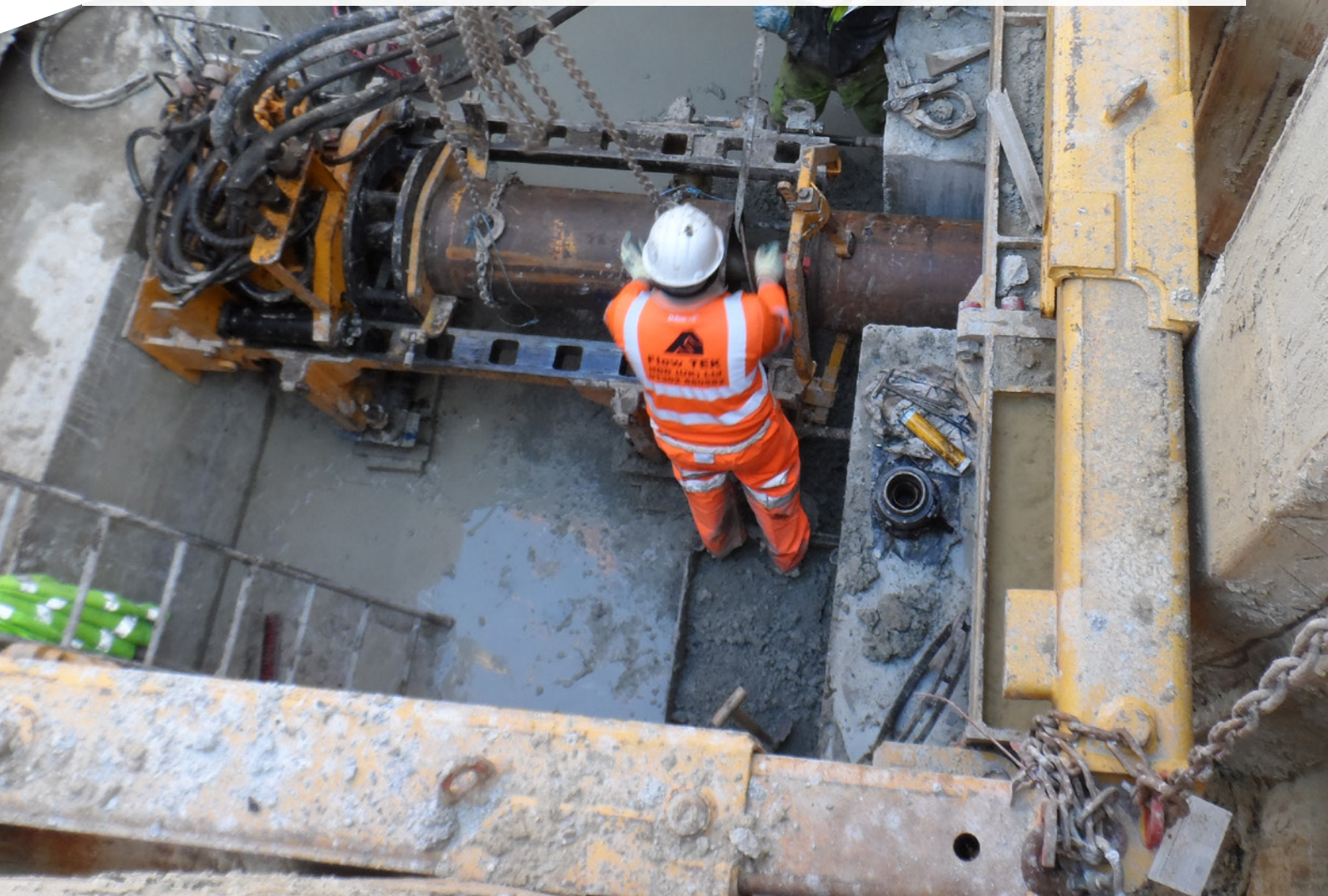
During this process, adjustments can be made to the line and length of the bore, and the drill head carries a transmitting device so that the FlowTEK team on the surface can monitor position, depth, pitch and roll.

The drill head is removed when the bore is complete and replaced with a back reamer that is appropriate.

After this is done, a cable or pipe is attached by the reamer by using a swivel and towing head. This is then installed and the drill string is retracted.

Fluids pumped through the rods to the head are vital to the process because in addition to lubrication and cooling, the polymers used are crucial in binding and stabilising the surrounding earth.

There are a number of factors that determine how easy these operations can be carried out. This includes the diameter of the pipe or cable that will be installed, the length of the shot and the complexity of the route to be directionally drilled regarding any sensitively positioned underground services.



Prevailing ground conditions and the knowledge and experience of operatives regarding the use of appropriate tooling and polymers are always significant because these factors are fundamental to a successful directional drilling operation.

With the underground installation of pipe, duct or cable, FlowTEK provides customers with a comprehensive service through the application of its extensive range of directional drilling plant and equipment, all of which is undertaken by teams of highly trained and experienced operatives employed by the Company.

The range of contract undertaken by the Company ranges, meaning that the spectrum of customers who come under this umbrella is wide and varied.

Contracts range from the installation of domestic pipe or cable over short distances to the installation of pipe or duct for the utility industries across many kilometres or large diameter crossings under roads, railways, airport runways or rivers.

The multi-purpose thrust boring machines used by FlowTEK are powerful and compact, and are designed for steered and non-steered trenchless installation of underground service pipes.

For any project, they can be adapted efficiently to suit any drilling method, with different drilling tools and the appropriate equipment application available in all soil classes.

The Optic Electronic Navigation System (OEN) provides for the exact steering of the pilot rods and ensures the required tolerances are kept. With the correct extension frames, all pipe lengths can be laid and achieve drilling lengths of up to 80 metres where suitable ground conditions allow - Auger Bore upto 80m, Directional Drilling upto 1500m in a single drill.





## Projects

FlowTEK's project history, like the range of companies that benefit from its services, is eclectic.

One of these is at Fullabrook Wind Farm in Barnstaple where the Company installed three 180mm electric ducts in single drills, with three-metre separation between the ducts. This included a single bore, multi-duct pull 3 x 180mm and 1 x 125mm under the Estuary at a depth of 10m.

Work is currently being undertaken on a 15km, 180mm gas pipeline near Norwich which has already seen 10km installed.

This has proved a challenging project because of the constant fluctuation in ground conditions that has seen changes from clays to gravel and flint.

FlowTEK's experience has made this a seamless procedure and completion is expected on the project in the next few weeks.





In the past, line works and specialist crossing works have been undertaken for both Thames Water and Severn Trent Water and their water mains.

Work on gas mains includes projects for Southern Gas Networks and Morrison Utility Services Ltd; while for Palm Paper Kings Lynn, FlowTEK installed a gas main along with specialist river and rail crossings.

The fact that these organisations have FlowTEK working directly for them shows just how high the reputation of the Company is. Scottish and Southern Energy Plc have benefited from full turnkey projects which has resulted in the

installation of multi-configuration electric ducting for roads, rails and rivers.

Working efficiently on projects to ensure they are completed on time is one thing, but FlowTEK also takes health and safety for its employees and clients very seriously.

As a result, the Company has employed the Health and Safety People to assist in all sectors of health and safety, environmental and quality, giving customers peace of mind that all aspects of their project will be taken care of.

**For more information, please visit [www.flowtekhdruk.co.uk](http://www.flowtekhdruk.co.uk) or contact on 01302 880582 or [enquiries@flowtek-ltd.co.uk](mailto:enquiries@flowtek-ltd.co.uk)**



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