



AVAILABLE FOR
PURCHASE



Live Gas Mains Insertion

The cast iron main replacement technique offering maximum operational flexibility.

Live Gas Mains Insertion is similar to dead insertion of polyethylene pipe (PE) into an old cast iron main with one very beneficial difference. By using a gland box, the old main is kept live throughout the insertion process and the new PE is gassed up to maintain gas supplies to customers.

Once insertion is complete, the main remains live to supply customers via the annular space until it is operationally convenient to transfer the services to the new main. Live Mains Insertion is used for the insertion of low pressure (up to 75mbar) cast iron mains from 3" upwards and a wide range of PE/ cast iron diameter combinations are possible.

Companies using the technique have recorded cost savings of up to 14% compared with dead

mains insertion and up to 38% compared with open trench replacement *. From a health and safety aspect, a minimum number of excavations need to be open at any one time. Being a low-dig technique, the environmental impact of Live Mains Insertion is reduced. As consumers are off gas for a minimum time, the technique is also good for customer relations.

Although used principally in the replacement of low pressure cast iron mains between 3" and 18", live mains insertion can also be carried out on ductile and steel mains when window cutting is required. It is also possible to carry out the procedure on medium pressure mains although the application of Insertion and End Seals would be carried out by a Contract Service engineer.

When inserting PE up to 180mm diameter it is usual to 'gas up' the PE prior to insertion and use a live head to allow gas to pass between the PE and the annulus. Above this diameter, where straight sticks of PE are used instead of a coil, it is possible to carry out the procedure without first gassing up the PE.



GAS



WATER



NUCLEAR



CONTRACT
SERVICES



SMARTESTER



HIRE



FUTURE
ENERGY

COST EFFECTIVE:

Cost savings of up to 14% compared with dead insertion

MINIMUM TRAFFIC

DISRUPTION:

Fewer excavations open at any one time

ENVIRONMENTALLY

FRIENDLY:

Low dig technique reduces environmental impact

SPEED:

Fast replacement technique

CUSTOMER SATISFACTION:

Customers off gas for minimum amount of time with one-hit service renewal resulting in only one purge and re-light per customer with no wasted fittings

FLEXIBILITY:

Services can be transferred in line with labour and customer availability

REDUCED LABOUR:

Competent Persons (CPs) and Authorising Engineers (AEs) are required onsite for only short periods during insertion process



AVAILABLE AS A  **CONTRACT SERVICE**

TECHNICAL SPECIFICATIONS

Conforms to relevant codes of practise

Low Pressure Mains up to 75mbar

Previously used on Medium Pressure

Host Main Size: 3" to 36" (larger sizes can be accommodated)

No minimum or maximum lengths

Available for loose and tight fit sizes (e.g. 90mm/4")



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