Geotron UK is an independent specialist geotechnical and environmental contractor offering land drilling and vacuum excavation services.

Vacuum Excavation

We provide services to support our clients during environmental and geotechnical site investigation and contaminated land remediation programmes.

The Safe alternative

Vacuum excavation is the relatively new and safe alternative to hand or mechanical excavation, allowing the safe exposure or avoidance of underground services.

Vacuum excavation uses compressed air or a jet of water to break up the soils and vacuum suction to remove the disturbed material.

Vacuum excavation is used by our ‘safe excavation’ crews to excavate service inspection pits prior to advancing boreholes with our range of drilling rigs.

It can also be used to positively verify the location of services concealed underground and expose them for repair or maintenance.
**The Benefits**

- Allows positive visual identification of services without making physical contact with them, avoiding services strikes, vastly improving safety
- Faster than hand excavation
- Reduction in manual handling and hard physical labour for operatives reducing the risk of injury and fatigue
- Excavation can be carried out in areas otherwise inaccessible by traditional excavation machinery
- Less surface damage and often a potential to reduce the size of the excavation
- Excavated spoil is directly removed leaving surrounding roads/footpaths clear of debris
- Excavated material can often be reused to backfill excavations once repairs/installations are completed
- Reduction in disruption to other site traffic, personnel and surface activities

**The Applications**

- Trial pits for subsurface infrastructure [cables, gas pipes, water mains, drainage etc] identification or avoidance
- Excavation around utility pipework or cables to enable repair or additions
- Excavation around tree roots to avoid damage
- Excavation of narrow diameter post holes for fencing, street lighting, road signs etc
- Trial pits around building/structure foundations for investigation or repair purposes
- Trenching to enable installation of new underground services
- Removal of railway ballast to enable access to underlying soils or structures
- Cleaning out of meter/valve boxes or manholes

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**Vactron LP AIR 300SDT**

Our Vactron LP AIR is a trailer mounted vacuum excavation unit comprising a 150cfm at 170 psi compressor, a 1000 cfm vacuum blower and a 4000psi water pump, all enclosed in a noise insulated cabinet.

It has a 1100 litre capacity spoil tank with hydraulic tipping and opening, a 1.5m Roto wand for wet excavation, a 0.9m variable nozzle wand for general wash-down, a 1.8m fibre glass air knife and 1.2m and 1.8m dielectric suction nozzles.

It comes complete with a 4" lightweight smooth bore suction hose and a manual folding boom arm for hose support.

To comply with regulations for working on fuel stations, petrochemical and chemical manufacturing facilities and refineries, the unit is fitted with a spark arrestor and chalwyn value.

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**For further information please contact us**

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