



Geothermal Drilling

Jackson Drilling have over 40 years of experience in the Geothermal Ground Source Heating sector. Equipped with various size drilling rigs to take on large commercial projects or small domestic applications enabling access onto most sites.

Fraсте XL Max 170



Our Fraсте XL Max 170 can drill to depths in excess of 300 metres. It is equipped with an automatic manipulator rod handling system all contained within an interlocking safety cage for operator and public safety.

Appeal of geothermal energy

Geothermal energy is a means of obtaining heat from the ground below our feet. Because the heat below is constant all year round, natural energy can be sourced by 'tapping' into this endless and affordable source thus resulting in an environmentally friendly heating and cooling system. The system once installed, gives off zero emissions making this renewable energy source very popular in the fight to reduce global warming.

Open Loop system

This system requires finding a substantial source of water which is not always possible. It may also require more ongoing maintenance than a closed loop system depending on the water quality. The advantage if successful is it only requires two holes whereas a closed loop system can vary from perhaps two to six holes for standard property. One hole is for the submersible pump to bring the water to surface and sends the water through the heat pump, the second hole is for a soakaway to dispose of the water after it completes its cycle through the heat exchanger and throughout your property. You will also need permission from the Environment Agency.

Closed Loop system

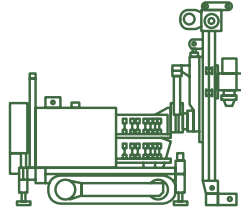
This system entails drilling a number of boreholes whose depths are determined by the kilowatts required. Because of the need for a soakaway hole, you will have to apply for permission from The Environment Agency.

Geothermal Drilling



About our rotary rigs

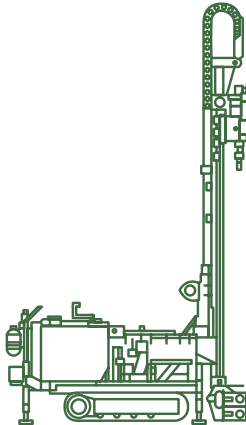
Beretta T41



- ▶ Used for small confined sites.
- ▶ Mobilised on a 7.5 ton truck.
- ▶ Operated by NVQ qualified crews.
- ▶ Can drill to a depth of 60 metres.
- ▶ Interlocking guards protect against moving parts.

This rig is very versatile and has proved its pedigree on numerous occasions successfully completing several small six to eight hole projects in very confined areas such as peoples back gardens. Mounted on rubber tracks makes it a 'ground' friendly rig causing no damage to tarmac or concrete and being able to move onto locations no matter what the weather!

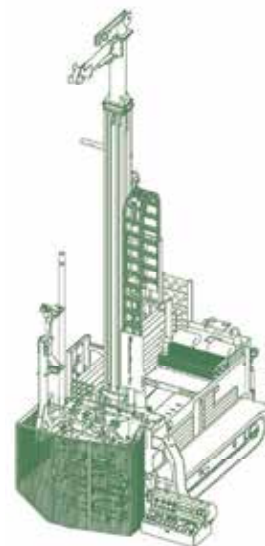
Beretta T44



- ▶ Medium sized rig.
- ▶ Mobilised on an 11 ton truck.
- ▶ Operated by NVQ qualified crews.
- ▶ Can drill to a depth of 150 metres.
- ▶ Interlocking guards protect against moving parts.

Whilst the T44 rig is also very versatile it requires a larger footprint to its little sister the T41. It however has the advantage of a lot deeper drilling capability. It also is fitted with rubber tracks to ensure the weather doesn't affect our ability to access even the wettest sites.

Fraste XL Max 170



- ▶ Pride of the fleet.
- ▶ Mobilised on 35 ton Low Loader Truck.
- ▶ Operated by NVQ qualified crews.
- ▶ Can drill to depths in excess of 300 metres.
- ▶ Interlocking guards protect against moving parts.
- ▶ Manipulator rod handling system.

This is the pride of our fleet specifically brought in to tackle deep and problematic boreholes to depths in excess of 300 metres, capable of drilling greensands and able to ream in excess of 100m x 200mm steel casing. Again mounted on rubber tracks so as not to be affected by weather conditions.