

HORIZONTAL DIRECTIONAL DRILLING SERVICES



ST. VINCENT
DRILLING

www.stvincentdrilling.co.uk



St. Vincent Drilling Rig

The rig is the Vermeer 36x50 series II, renowned within the Horizontal Directional Drilling industry as a real workhorse, known for its reliability and versatility.

Vermeer 36x50 Series II

The Vermeer 36x50 Series II comes with 4500ft-lb of rotary torque and 16.9 tons of thrust/pullback, the highest power-to-size in its class, powered by a 140hp John Deere turbocharged engine and weighs in at 13.29 tons. The drilling fluid system has a maximum flow of 70gpm and a maximum fluid pressure of 1100psi, it carries the Firestick II drill pipe, 152 metres in total so no need to add additional pipe when performing extended shots.

This rig is ideal for small to medium utilities ranging from 75mm to 355mm, it will effectively and efficiently install gas and utility pipelines, and is a safe and economical solution, avoiding man-made and natural obstacles, including rivers, canals, rights of way, SSSI land plus rail and roadways.

The drill requires drilling fluid which is run through the Vermeer 850 mixer unit, the main constituent is water which can be mixed with bentonite (clay based) or polymer dependent on ground conditions. This fluid is continuously pumped to the cutting head allowing it to keep cool, it also stabilises the bore path and acts as a lubricant allowing easy passage of the product pipe, this mud can be recycled back through the rig.

Guidance System

Guidance is achieved via the latest Digitrac Falcon F5 Aurora, this system has the widest range of frequencies so the user is assured the best frequency in each situation. Digitrac Aurora gives the rig operator rod by rod data of the bore as it happens, capturing rod number, pitch, depth and surface distance for every rod drilled, helping the operator steer an accurate bore path.

Horizontal Directional Drilling

HDD is a proven installation method for all types of pipework, telecomms, gas lines, clean and dirty water. Causing little disruption to the surrounding area, enabling the crossing of obstacles in an environmentally friendly way.

The process starts with a launch and reception pit, these pits collect the drilling fluid which is removed by vacuum tanker truck, the pilot bore is drilled along a pre-determined path set out by the site engineer, once the pilot bore has reached the reception pit a reamer is fitted to the drill stem, this reamer is pulled back along the pilot bore path expanding the bore (known as back reaming), this may be more than one pass, by sizing up the reamers incrementally, the bore is expanded to 25-50% larger than the product pipe.

Finally, a towing head is attached to the product pipe which in turn fits by shackle arrangement to the back of the reamer allowing the drill rig to pull the pipe back along the bore path to arrive at the launch pit.

About St. Vincent Drilling

Moving from civil engineering - laying foul and clean water pipe using the conventional open cut method, a natural progression on from that was the recent purchase of a horizontal directional drill.

St. Vincent Drilling will save the client time and deliver on cost effectiveness; our cost base is low, our team multi-task allowing us to be very competitive.

The Team

We have a team of highly skilled individuals whom have twenty-plus years' experience in the field of horizontal directional drilling. Our commitment is to produce the highest levels of precision drilling, carried out with responsibility to the environment and awareness of personal safety.



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