



TERRA-JET 3008 ES drills heating pipeline

The Swiss contractor Moser Tiefbau AG from Fischingen used its newly acquired steerable pit launch machine TERRA-JET 3008 ES to lay a pipe for long distance heating. For that purpose the machine was installed in the starting pit. From there the pilot bore was drilled with a length of 48 m (160 ft). Existing utility pipes and a carport were crossed underground. In a second step a HDPE pipe OD 225 mm (9") was pulled in as a casing. Later a long distance heating pipe with supply and return line were inserted in that casing pipe.

The HDD rig TERRA-JET 3008 ES is equipped with drill rods of 1 m (3.3 ft) length, which allows a maximum bending to a radius of 40 m (132 ft). With a torque of 3000 Nm (2'215 ft/lbs) and with a thrust and pullback force of 8 tons (17'600 lbs, respectively 9 US tons) bore channels up to a diameter of 420 mm (16.5") are feasible.



The hydraulic power pack, the mixing + pumping station as well as the tank were installed separately. The power pack is driven by a PERKINS Diesel engine. Built-on is a diesel particulate filter that ensures compliment with the strict Swiss exhaust emission standards.



The bore run was continuously tracked with a locating system which also incorporates the targetin-the-box locating function.

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Horizontal Directional Drilling Machine TERRA-JET 3008 ES







↑ The backreamer ø 300 mm (12") with attached HDPE pipe ø 225 mm (9").

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After the pilot bore the bore channel was extended to \emptyset 215 mm (8,5") in a first step and to \emptyset 300 mm (12") in a second step.



The Bentonite accumulated in the pits was removed by a Bentonite vac.





After removal of the PE-expander chuck the supply and return line for the long distance heating are pulled in.

The pulling in is completed. The back reamer is removed and the casing pipe re-pulled the last section. Then the PEexpander chuck is cut off.

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