



Eesti Horisontaalpuur OÜ

PROJECT: KIILI-PALDISKI GAS PIPELINE METAL SLEEVE INSTALLATION WITH CLOSED METHOD

TECHNOLOGICAL DESCRIPTION OF HAMMER DRILLING

Hammer drilling consists of several different stages.

In the first stage will be prepared the starting pit with the measurements:

Length 20m, width 4m and depth 0,5m from the bottom of the predetermined pipe. The front-, and back wall have to be straight.

At the beginning of drilling, the drill frame with four or eight metal legs will be lifted into the starting pit. A prepared metal sleeve pipe will be placed on top of the drilling frame and the hammer unit is welded in front to the metal pipe. Inside the metal pipe is a metal spiral (conveyor) that transports the drilled soil to the starting pit.

The hammer drill is using the air and hydraulic method where the soil will be crushed into dust (very fine parts) and transported along the sleeve pipe into the starting pit.

After first pipe is drilled there will be added next metal pipe that will be welded together. The same time will be extended also spiral (conveyor), until the required length is reached in to the target pit.

Target pit measurements have to be: Length 4m, width 3m and depth 1m from the bottom of the predetermined pipe. After that the hammer drill will be cut off and sleeve pipe will be cleaned from soil with the spiral. Then the work is finished and it is possible to install desired pipe(s).

Hammer drilling is mainly used in soft soil conditions.

Necessary machines for hammer drilling: hammer drill, air compressors with the necessary equipment.

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Chairman of the board

