



# Eesti Horisontaalpuur OÜ

## TECHNOLOGICAL DESCRIPTION OF AUGER DRILLING

Auger drilling consists of several different stages.

Before starting the drilling is important to set up the drilling direction and inclination, because during the drilling the unit can no longer be guided as it can be done for horizontal directional drilling (HDD).

In the first stage will be prepared the starting pit with 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 will be lifted into the starting pit where the base of the pit have to be properly supported. A prepared metal sleeve pipe will be placed on top of the drilling frame and a metal spiral (conveyor) is inserted into the metal pipe that transports the drilled soil to the starting pit.

After the first pipe is drilled there will be added next metal pipe they will be welded together. At 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 metal sleeve pipe will be cleaned from soil with spiral.



When the drilling is finished, all spirals will be taken out from the sleeve pipe into the starting pit and will be opened one by one. Rest of the equipment will be lifted out from the pit, and inserted pipe will be cleaned again if it is needed. Then the work is finished and it is possible to install desired pipe(s).

Technologically, during auger drilling the metal sleeve pipe will be pressed into the soil using the frame which is locating in the starting pit. In front of the pipe the drilling unit have to be the same size with the pipe diameter (to avoid rocks between drilling unit and pipe, it may block the spiral and cause soil to subsidence), because spiral will take the soil remains out from sleeve pipe.

Auger drilling is mainly used in soft soil conditions.



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