



# Project Case Estonia, 2017 – The new Court House of Tallinn



## Project Scope

- Construction of a new court house building in central Tallinn. Due to drilling below water table the bottom plate needed drilling for ground anchoring including injection of cement grout.
- Number of holes: 228
- Depth, max: 7 m (23 ft.)
- Scope of drilling/total meters: 980 m (3 215 ft.)
- Why using air DTH from DrillKing? Due to knowledge of the hammers good performance.

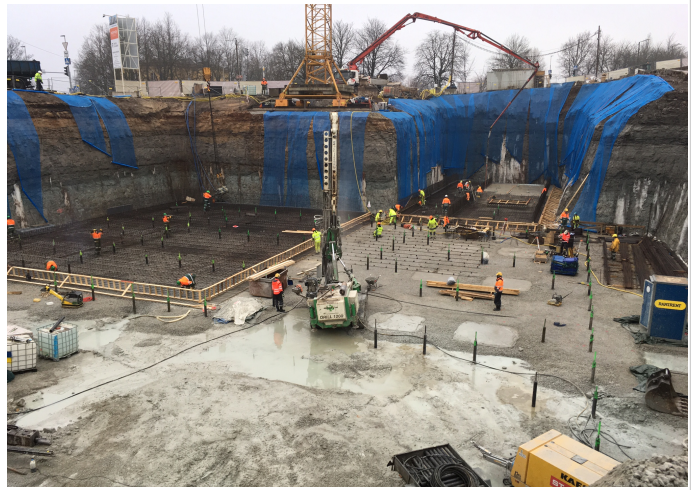


Photo by Mikrovai

## Equipment & Geology

- Hammer model/sizes: DrillKing's DK 30, 3.5" air DTH
- Drill bit: 105 mm hedgehog semi-ballistic
- Compressor giving 10 m<sup>3</sup>/h @ 8 bar
- Drill rig from the Italian manufacturer IPC, now a foundation partner within the Soilmecc Group: IPC 1200  
– A multiuse powerful drilling machine weighing 12 t and with feeding length 7 m
- Rig equipped with: Rotary drilling device IPC 21
- Geologic formation: Sandstone

## Main stakeholders

- Commissioner/developer: Government of Estonia/Astlanda Ehitus
- Main and sub contractor: OY Mikrovai

## Project and drilling results

The DrillKing DK 30 air DTH showed a substantially higher ROP per drilled meter compared to the ones used of other brands. Mikrovai very satisfied with performance of both hammer and drill bit.



The DK 30, 3.5" air DTH

