Sandvik Coromant rock drilling tools

TUBEX XL

Eccentric drilling equipment for simultaneous drilling and casing through overburden and loose rock formations

SANDVIK
Rock Tools
1. The TUBEX method is based on a pilot bit and an eccentric reamer. The reamer drills a hole sufficiently large for a casing tube to slide down behind the reamer. Cuttings are flushed upwards inside the casing.

2. When the drilling has reached a few feet into bedrock, the drill string is rotated in the opposite direction, whereby the reamer is folded in. The drill string with the Sandvik TUBEX bit can now be retracted inside the casing.

3. Impact energy from the hammer is diverted to the casing tube to anchor it. After changing to a conventional DTH bit, the drill string is lowered into the casing and drilling can resume.

Here are just some of the many applications for the TUBEX method:

**Civil engineering projects:**
- anchoring
- grouting
- pipe and cable laying
- blast holes without soil removal

**Mineral prospecting:**
- pilot holes for diamond drilling
- sampling cuttings
- overburden thickness surveys
- water table studies

**Water wells:**
- casing from surface down to bedrock
- casing all through unstable formations
- exclusion of upper water layers, which are frequently polluted