Jet Grouting Drilling

Jet grouting is done while the drilling rods are withdrawn. Withdrawal speed has a crucial influence on the column diameter, which quite possibly varies in size.

To increase injection depth and column diameter of jet grouting, the column is coated with air (double method) using particular jet grouting rods. The internal high-pressure string transports cement suspension, the external string transports air. At the end of the drilling rods is the nozzle holder, whose nozzles combine the suspension to a thin stream. This stream is coated with air, which guarantees the success of the grouting.

Also in jet grouting with double type, the grouting is always done while the rods are withdrawn and the automatic valve is closed. Another valve ensures flushing of the drilling bit during back-drill.

Triple jet grouting rods transport additional water in a third string to the drill bit (no illustration).

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**Jet Grouting Drilling Method (mm/inch)**

**Jet grouting drilling – single type**

| Diameter | 88.9 / 3.5 |

**Jet Grouting Drilling Method (mm/inch)**

**Jet grouting drilling – double type**

| Diameter | 88.9 / 3.5 | 114.3 / 4.5 |

**Jet Grouting Drilling Method (mm/inch)**

**Jet grouting drilling – triple type**

| Diameter | 88.9 / 3.5 | 114.3 / 4.5 |

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