

Delft continuous soil sampler

2 sizes

The Delft continuous sampler, developed by GeoDelft, is available in 2 sizes to take continuous samples of 29mm and 66mm in diameter. The 66mm sampler, shown in the diagram below, is pushed into the ground with standard CPT equipment.

Nylon sleeve

The sampler is advanced by pushing on the steel outer tubes and the sample is fed automatically into a nylon sleeve, which has been treated to make it impervious. The sample within the sleeve is fed into a thin-walled plastic inner tube filled with a supporting fluid of bentonite. The upper end of the nylon sleeve is fixed to the top cap of the sample, which is connected through a tension cable to a fixed point at ground surface.

Extension tubes

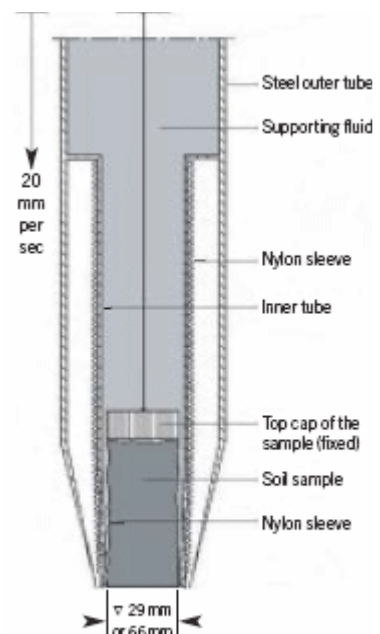
Extension tubes 1m in length are added as the sampler is pushed into the ground. The sampler normally has a maximum penetration of about 18m, but in suitable strata, with a modified magazine and increased thrust, samples up to 30m in length have been obtained.

The 29mm sampler is of similar design and requires less thrust.

Laboratory tests and visual examination

The samples are cut into 1m lengths and placed in purpose-made cases being retained in the plastic tubes. The 66mm samples are suitable for a range of laboratory tests. The 29mm samples are used for visual examination and the determination of bulk density and index properties.

After specimens have been removed for testing, the samples are split and are then described and photographed in a semi-dried state when the soil fabric is more readily identified. For 29mm samples only one half of the split material is used for testing, thus preserving a continuous record of the ground.



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