

Ranger-46/66

Soil Sampling System

Geomil
equipment

*World's first manufacturer
of CPT equipment*



Geomil Equipment's Ranger series is a push in soil sampler deployed using CPT push equipment.

The Ranger allows the user to acquire undisturbed soil samples using any CPT rig. This enables a more complete ground investigation program without the need for extra machines to be mobilised to site.

The undisturbed samples are suitable for lab tests including triaxial stress tests and simple shear tests. The Ranger-46 and Ranger-66 acquire 46 mm and 66 mm diameter samplers respectively.

Sampling is carried out in discontinuous lengths of 0.5 m or 1 m. The sampler is pushed to the required depth using the CPT push frame and either CPT or casing tubes.

The Ranger-46 can be advanced using 36 mm CPT tubes as the driving rod, while the Ranger-66 is preferably pushed with 55 mm casing tubes.

Once the required depth is reached the sampler is unlocked using a wireline overshot that is lowered through the pushing tubes. To collect the sample the Ranger is then advanced using the CPT system while the conical tip remains stationary.

The barrel is lined with a sampling tube of either stainless steel or PVC. Upon reaching the surface the tube is removed from the barrel without compromising the sample and sealed to retain moisture content.

Split tube liners are also available to allow easy removal of the sample from the tube.

Coupled with existing CPT equipment the Ranger series enables the quick deployment of a high quality soil sampling system. It allows geotechnical contractors to take their ground investigation capabilities to the next level with only a small investment compared with a stand alone soil sampling system.

The main features of the Ranger are:

- undisturbed soil sampler
- 46 mm and 66 mm sample diameters available
- easy to set up and operate
- no need to extract the sample from the liner
- 0.5 m or 1 m samples
- can be deployed with almost all CPT rigs
- soil retainer basket ensures sample recovery

For more technical information or a quotation based on your specific requirements please contact sales@geomil.com or call us at +31 172 427 800.



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