

DEEP CORE SAMPLERS

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P1.33

For laboratory research (soil mechanics and/or soil physics) it is essential to have undisturbed soil samples available. Depending on the diameter and the length of the desired sample a certain sampler is selected. The Akkerman core sampler as well as the Van der Horst core sampler are used in combination with sampling tubes with a diameter of 70 x 67 mm and a length of 44 cm.

04.11 Akkerman core sampler, standard set

Using the Akkerman core sampler, samples are taken in stainless steel sampling tubes in auger holes or casing tubes (above as well as under the groundwater level, casing tubes with minimal diameter 100 mm) up to a maximum depth of 50 m. The Akkerman core sampler is used in combination with a tripod and hand winch. The sampling tube is beaten into the soil using a falling hammer. After sampling the sampling tube can be sealed off with the PE covers. A sample on the split sample tube can be prepared for transport by covering it with

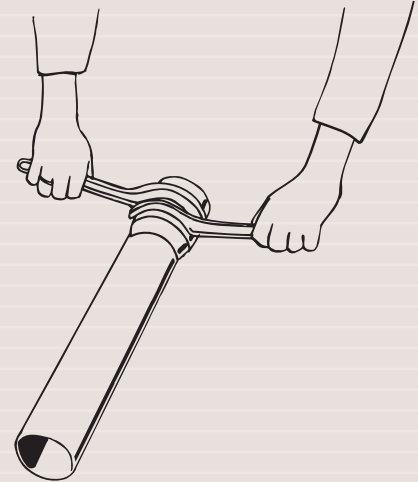
another split tube and sealing the seams and closing both ends with covers.

The hydraulic extruder can only be used to remove the sample from the ordinary sampling tubes. The tubes with core catcher can not be emptied using this extruder. The sample must be removed by tapping or by pulling the plastic liner in which the sample is bedded if the liner had been placed in the core catcher before sampling.

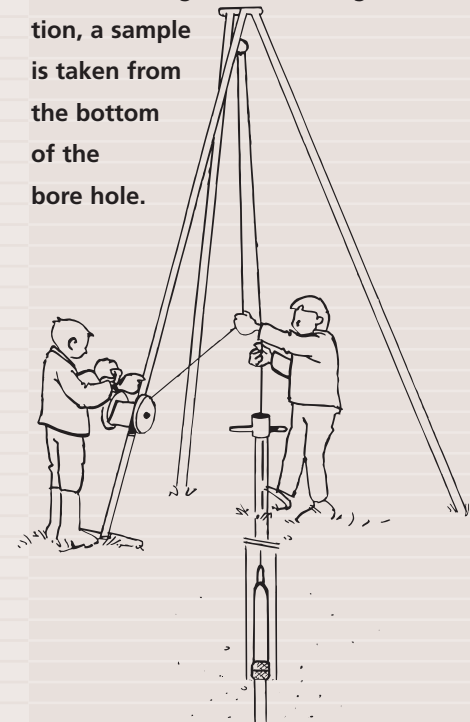
Using the connection set, which has not been included in the standard set, allows immediate leaching test in the laboratory, without the need to remove the sample from the sampling tubes first.

Among other items the standard set contains: an Akkerman core sampler, a falling hammer, various sampling tubes with and without core catcher, plastic sampling liner, sampling tubes, PE covers and a hydraulic extruder for the sampling tubes.

The sampling tube is fixed in the core sampler using the hook spanners.



After a hole has been drilled, for instance using a bailer boring installation, a sample is taken from the bottom of the bore hole.



Akkerman core sampler set

BENEFITS

04.11 Akkerman core sampler

- Durable stainless steel coring tubes
- Large high impact hammer
- Ball valve system for best sample retrieval
- Strong hydraulic extruder
- Liners available for tubes with core catchers



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