

HAND-OPERATED BAILER BORING EQUIPMENT



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For drilling into the ground and taking soil samples, both above and below the groundwater level, you can choose between two carefully thought-out hand-operated bailer boring auger sets.

A complete set for drilling to depths of approximately 7 meter (for one operative), and another equally complete set with synthetic casing tubes for drilling to about 15 meter deep. This latter set needs a minimum of two persons.

Both sets consist of separate smaller units, this considerably increases the mobility in areas where access is difficult. There are no parts in the sets that contain oil or petrol, so they are also suitable for use in nature reserves or water catchment areas.

01.12.SA Hand-operated bailer boring auger set for heterogeneous soils

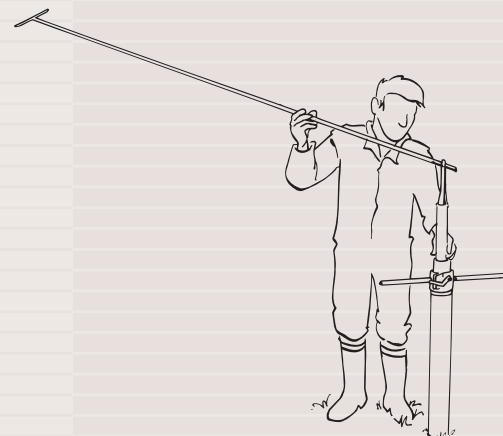
The standard bailer boring auger set is suitable for augerings to a depth of about 7 meter. The set is very suitable for - in addition to exploratory soil augering and sampling - inserting monitoring well

pipes for groundwater level measurements and for sampling. This compact set can be carried easily in a station car and is easy to use in the field. It can be used by one person.

The set contents include: various types of soil augers to reach the groundwater level, augers for the extraction of less-disturbed soil samples, extension rods, synthetic casing tubes with steel screw thread sockets, tube clamps with adjustable quick fastener for driving in and withdrawing the casing tubes, bailers with steel and synthetic valves, casing tube platforms for more ergonomic working, spare parts and various accessories. The set is delivered in two aluminium transport cases.

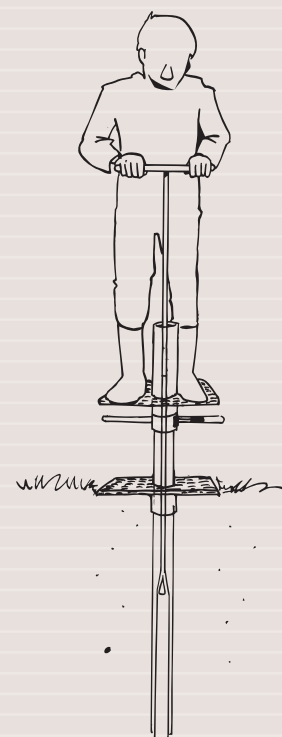
The bailer, an essential part of the set, is a stainless steel tube with a stainless steel or synthetic valve on the lower part. By moving the bailer rapidly up and down loose material will collect in the bailer.

In less-cohesive soils, below the groundwater level, a bailer and synthetic casing tubes can be used.



Hand-operated bailer boring auger set

For ergonomic reasons a casing tube platform is used.



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02.04.SA Bailer boring rig with auger set with tripod and winch

The set includes the following components: various types of hand augers in various diameters with extension rods, core samplers for taking undisturbed soil samples from ahead of the casing tube, synthetic casing tubes with steel screw thread sockets, tube clamps with fastening by means of screw thread spindle and accessories. Also included is a tripod with winch and bailers with steel and synthetic valve with wire eye.

The tripod is an indispensable aid when making deeper boreholes (bailer boring), or when using heavier soil sampling equipment. A tripod is also necessary when installing water wells and heavy water pumps, and for rigging work in the field. Decisive factors in the selection of the tripods are: working height, weight and maximum load (= pulling force).

The hand-winch is used for lifting and rigging work in

the field, e.g. when bailing and pulling casing tubes out of the soil. The winch can be attached simply to the tripod.

At least two people are used to work with this set. The operation of the bailer included in this set is the same as in the smaller set, except that the bailer is now moved up and down by a cable.

Because of the greater drilling depth and the larger casing tube diameter, the total weight of the set is greater than that of the set mentioned earlier.

Because this drilling set also consists of a number of smaller units, less accessible areas can be reached with reasonable ease. The entire set can be carried on a small trailer.

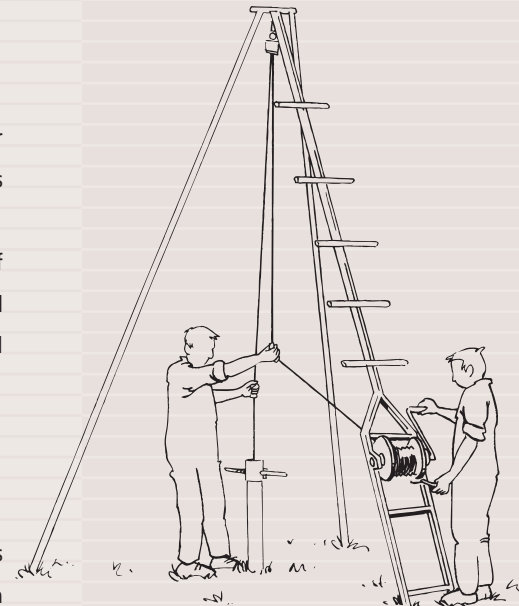
Advantages

- Complete set.
- Various types of augers, the right auger is always to hand; the required drilling depth can be reached quickly.

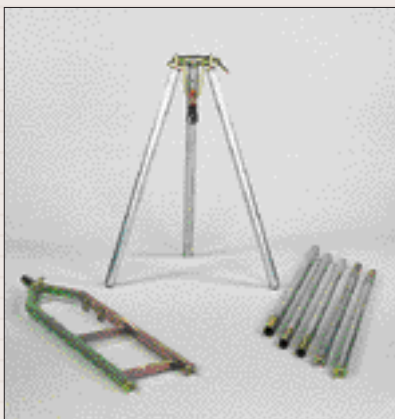
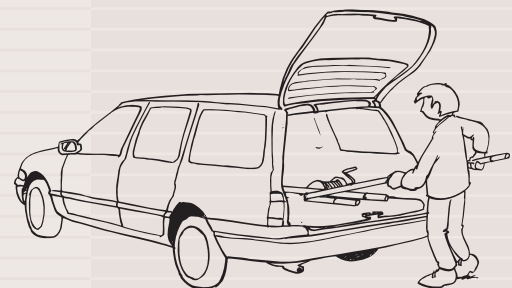


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Using the cable attached to the tripod, the bailer is moved up and down in the casing tube.



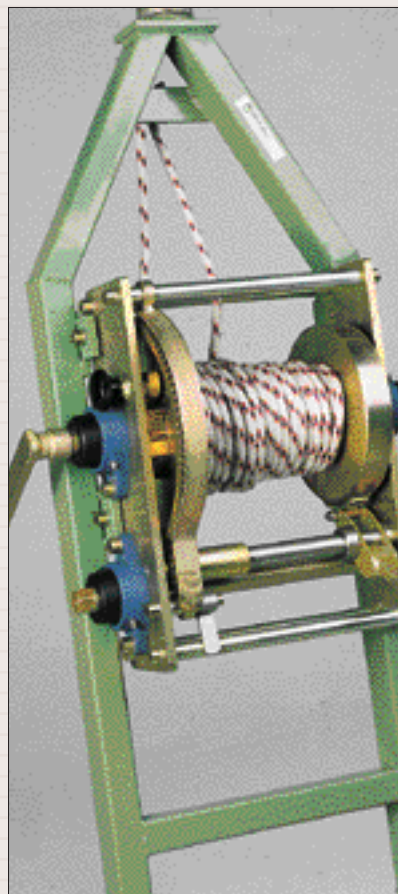
The tripod, which consists of several parts, is transported in a normal station wagon.



Tripod 18 kN



Bailer



Hand-operated winch 20 kN



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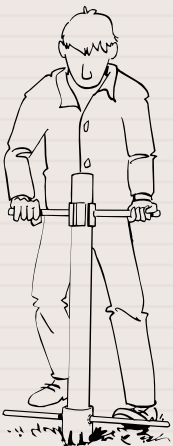


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When the profile changes (e.g. a clay or peat layer) the bailer is exchanged for an auger to drill (within the casing tube) through the layer.



Using the tube clamps the synthetic casing tubes can be unscrewed and taken apart.



- ❑ The set contains sufficient casing tubes to prevent collapsing of the borehole.
- ❑ The casing tubes fitted with steel screw thread sockets with left hand, coarse, round, inside screw thread closes in 2 1/4 turns. An O-ring on the screw thread socket seals it for fine sand.
- ❑ Limited investment in comparison to other drilling methods for boreholes up to 15 to 20 meter depth.
- ❑ Casing tube for undisturbed soil sampling.
- ❑ Groundwater examination for water catchment and determining the water quality.
- ❑ The installation of larger diameter monitoring well pipes and/or sampling tubes.

99.14 Fieldcart

You are also fully-mobile in the field with the collapsible fieldcart.

The sturdy aluminium construction makes the fieldcart very suitable for carrying all kinds of equipment in the field to a maximum loading weight of 150 kg.

The cart, when folded, takes up very little room.

Limitation: not usable in hard soils with a high content of stones and gravel.

Applications

The bailer boring auger set with tripod is used, in particular, for:

- ❑ Deeper profile examination for mapping purposes and geological/mineralogical surveys, sand extraction and foundation surveys in all types of sub-soils, both above and below the groundwater level.



Lifting cap and casing tube



Fieldcart folded



Fieldcart un-folded