

LOST CONE DRILLING METHOD

Drilling a bore hole is often combined with sampling and describing a profile.

If both these activities are not necessary during the drilling procedure then drilling can be executed fast and efficient applying the so called lost cone drilling method.

Eijkelkamp Agrisearch Equipment developed a manually controlled set using an electrical percussion hammer to hammer the lost cone and the accompanying casing into the soil.

10.100 Lost cone drilling set, standard set for drilling according to the lost cone method

The specially designed lost cone is hammered into the soil using an electrical percussion hammer which is placed on the casing.

The lost cone produces a very straight bore hole that is slightly wider in diameter than the casing in order to reduce the friction.

This procedure makes it easier to reach greater depth and the friction on extracting the casing is limited.

On reaching the desired depth a filter tube can be lowered through the casing or sensors can be left in the bore hole.

Subsequently the casing can be extracted using the 2-person operated rod puller in combination with the universal casing and rod pulling clamp.

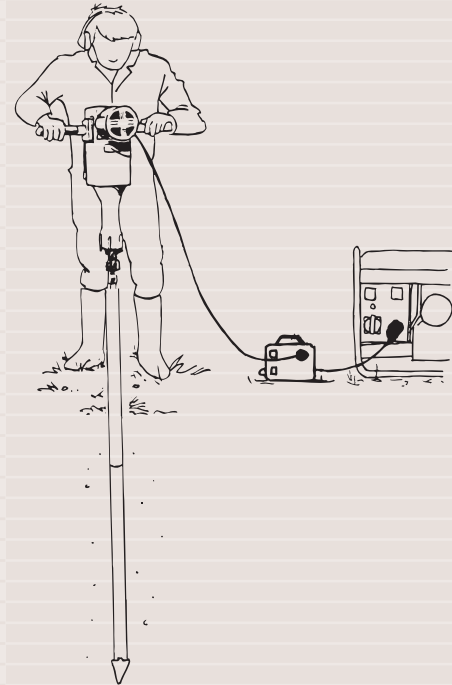
This very complete set contains: an electrical percussion hammer, an aggregate with insulation guard, striking pens, drive-cone holder for percussion casing, steel casing, pulling equipment, lost cones and various accessories.

The standard set is equipped for drilling to a depth of up to 10 m.

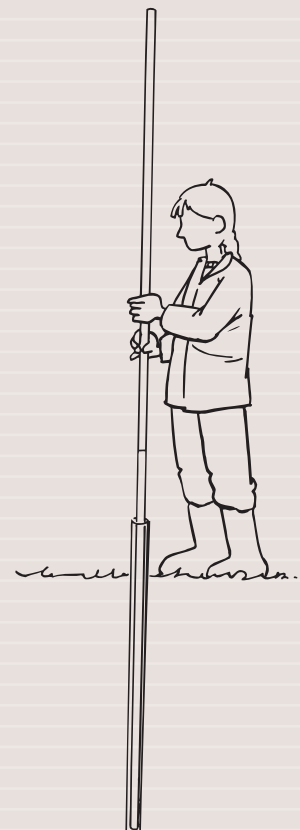


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Parts List
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Using an electrical percussion hammer and the casing the lost cone is hammered into the soil.



A filter tube is placed in the casing.



Lost cone drilling set



Lost cones

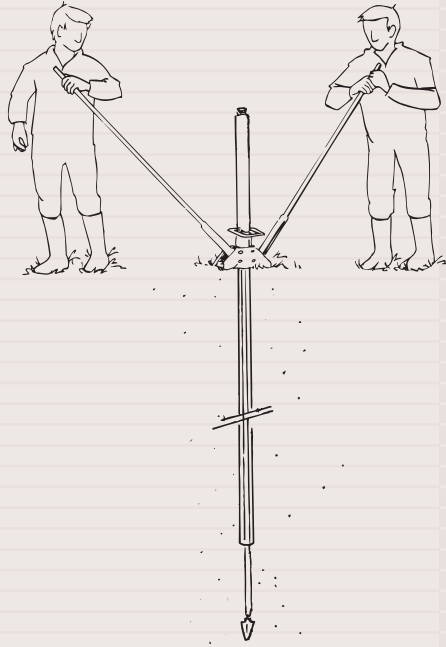


Casing with lost cone



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Using the 2-man operated mechanical rod puller the casing is pulled from the bore hole.



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Applications

The lost cone drilling method is successfully applied when placing monitoring well pipes with a small diameter, for environmental research.

After drilling the lost cone is left in the soil. This does not cause any environmental problems as the material used is present in the soil by nature.

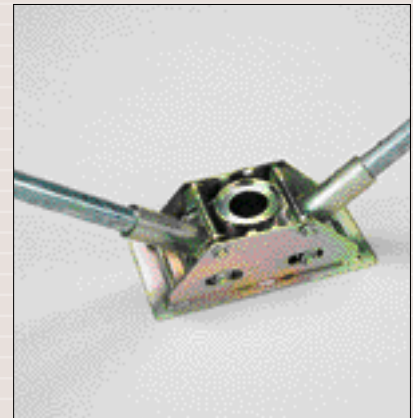
A completely different application of the set is making holes for the installation of explosives for seismic research.

Advantages

- ❑ Complete set.
- ❑ Fast and efficient drilling method.
- ❑ No large means of transport required allowing operation in less accessible areas.
- ❑ The special shape of the lost cones makes that there is less friction when the casing is inserted and extracted again.



Casing with striking pen



2-man operated mechanical rod puller



Casing/rod puller clamp + clamping jaw