

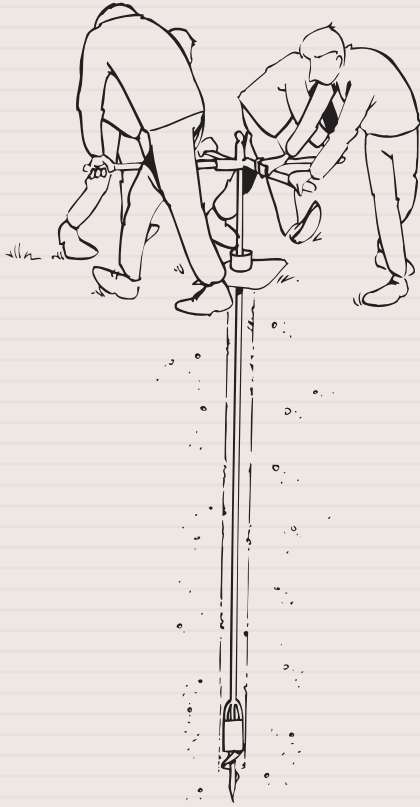


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DRILLING SETS FOR SHALLOW WELLS

P1.22

In cohesive soils augering can be done without the use of casing tubes.



Water well drilling

Eijkelpamp Agrisearch Equipment has developed various sets for shallow water well drilling. The sets differ in diameter of the drilling equipment. When drilling deeper wells it may be necessary to drill in steps. Since the augers in the sets have various diameters, but the same connection it is very easy to interchange augers. A set can easily be upgraded for stepwise augering. In this way, the necessary well depth can be reached easier. The working principle of the drilling of shallow water wells is very simple: hand auger equipment is used to drill a hole. When drilling in less cohesive soils, a casing tube is sunk. After reaching the desired depth a filter pipe is inserted and filter gravel is poured around the filter pipe. To prevent contamination by surface water the rest is filled with clay (natural backfill).

The casing tubes are subsequently removed. The water well is completed by placing a slab and installing the hand-operated pump.

15.02.SA Water well drilling set, standard set to a boring depth of 20 m

The set is developed and used for the construction of hand-drilled wells in soils without very hard layers and with sufficient aquifer recharge, permitting small diameter wells. A maximum depth of approximately 20 meter can be reached. The maximum space for the filter is 108 mm diameter. Where the soil becomes less cohesive, the casing tubes are used to prevent collapsing of the auger hole. When reaching sand below groundwater level the bailers are used. When a layer of clay is reached again, bailing is stopped and drilling is continued inside the casing. If necessary, a tripod with winch may be used.

The standard set (with square 30 mm connection) is equipped with, amongst other things: a tool guide, crosspiece and kelly, handles, various extension rods, rod catchers with cleaning point, Riverside augers, an elongation piece for Riverside and



Water well drilling set (15.02 SA)