

HAND AUGER EQUIPMENT

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P1.01

Spiral auger

The spiral auger operates similar to a corkscrew and does not cut off the soil. The auger is usually applied when hard layers need to be penetrated. The spiral auger has a negative end, i.e. the centre of the auger end is whetted away. For profile research (soil mapping) the spiral auger is seldom used. Its use is confined to augering through very hard layers, e.g. boreore, brick layers, chalk and lime profiles in combination with other auger types. The single spiral auger is standard equipped with a contact for electrodes.

Stone catcher

This auger type is used to remove loose stones from the auger hole.

Soft soil auger

This special type of Edelman auger has an extended auger body (sensitive to torsion) and is suitable only for sampling very soft (clay) soils.

Gouge auger

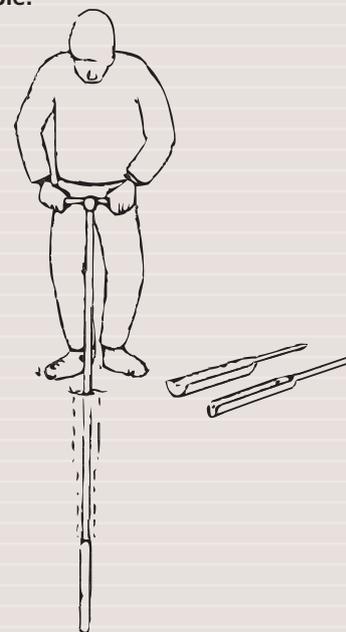
The gouge auger can be used for sampling with a minimal disturbance of more or less soft, cohesive layers e.g. wet clay, peat.

Piston sampler

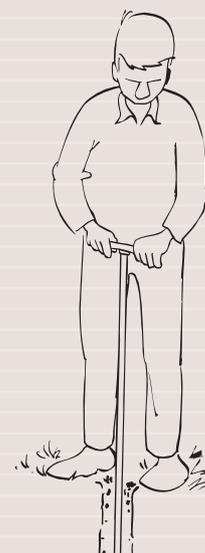
The piston sampler differs completely in design and application from the augers described before and is very suitable for sampling less cohesive soil layers (sand) below the groundwater table. The piston sampler is also suitable for sampling sediments with a sand content. Essential differences between the other augers and the piston sampler are:

- The piston sampler can only be applied below the water table and in moderately cohesive soils like sand, weak soil layers, etc.
- The piston sampler can take almost undisturbed samples.
- The piston sampler takes samples of 50, 100, 150 and 200 cm, while the other Edelman handaugers have a maximum sample length of about 15 cm.

The gouge auger with the smallest diameter is used for the deepest sample.



By means of a stone catcher a stone is removed from the auger hole.



Spiral auger and stone catcher



Soft soil auger



Gouge auger and piston sampler

BENEFITS

Piston sampler

- Perfect profile description in one minute
- No hassle with casings and coring tubes
- View up till 2 m of saturated sandy soil
- Also for water bottoms



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