

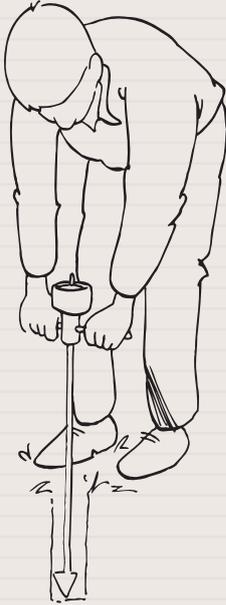


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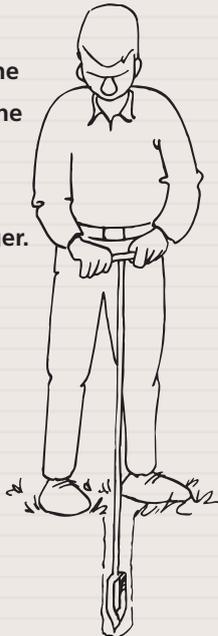
HAND PENETROMETER EIJKELKAMP

P1.50

The penetrometer is pushed perpendicular into the soil at a speed of approximately 2 cm per sec. applying equal pressure on both grips.



To be able to determine the resistance to penetration of the lower layers in the soil the hole is pre-drilled using the Edelman auger.



Penetrometers are used to determine the resistance to penetration (bearing capacity) of a soil. The Eijkelkamp penetrometer is delivered in two different sets:

06.01.SA Hand penetrometer Eijkelkamp, set to a depth of 1 meter

06.01.SB Hand penetrometer Eijkelkamp, set to a depth of 3 meter

Both sets can be used for probing to a depth of between 1 and 3 meter. Both sets contain various cones, probing- and extension rods, a measuring instrument with a pressure gauge, tool set, a cone check, a calibration certificate and an instruction manual.

The measuring range of the pressure gauge is 10000 kN/m² (=10000 kPa).

The scale range runs from 0 up to 1.0 kPa. The accuracy is +/- 8% in the advised measuring range.

The sets have been packed in compact aluminium carrying cases.

to execute research of a soil profile as well, or to penetrate a tougher layer in the soil.

The auger is also applied to drill-out the probing hole to avoid adhesion between the probing rods and the shaft wall.

Basically the penetrometer consists of a measuring instrument, a probing rod and a cone.

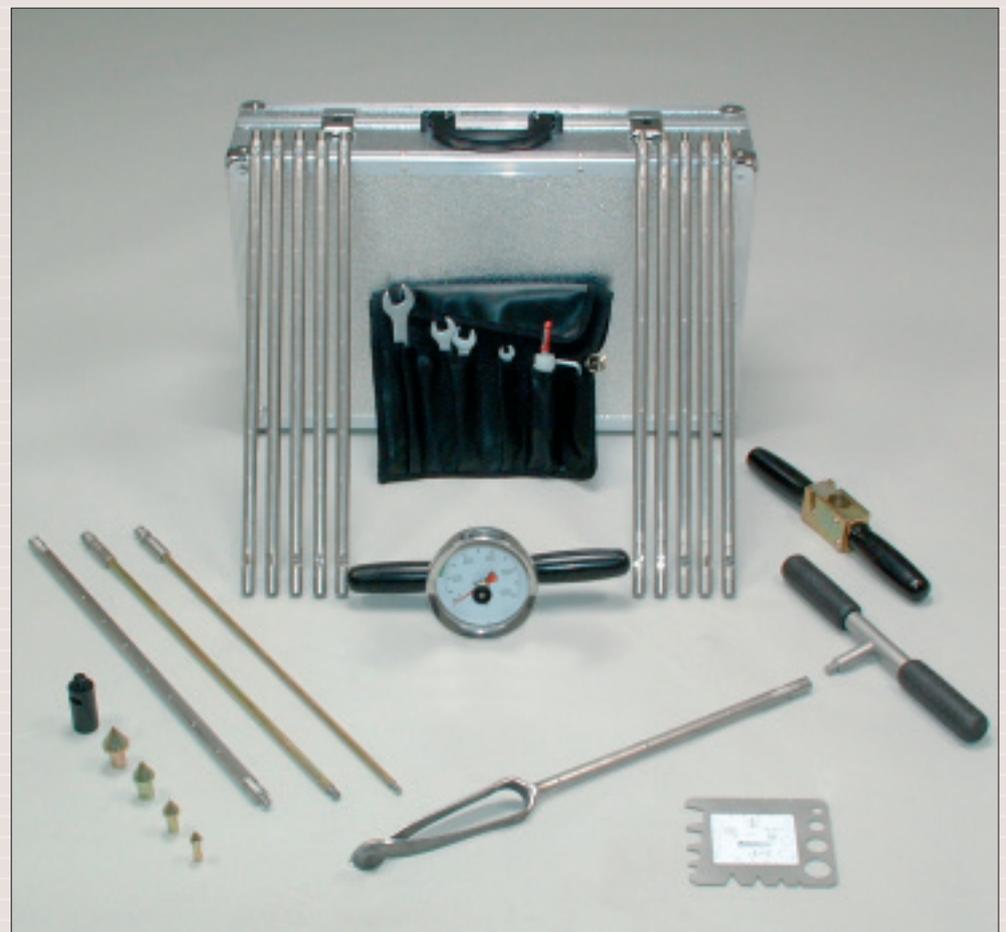
The device is pushed perpendicular into the soil by applying equal pressure on both grips. Jerking pushes yields values which are too high and which do not represent the soil.

The resistance measured by the cone can be read from the pressure gauge as indicated by the black pointer. The maximum resistance recorded during measurement is indicated by the red dragging pointer.

BENEFITS

06.01 Hand penetrometer

- Accurate hydraulic reading dial
- Perfect for agronomists and contractors
- Can be operated with full body weight
- Dial equipped with drag pointer
- Comes with all rods and cones 1-5 cm²
- Set B for depths up till 3 m
- Cone check to check quality of cones
- Auger to remove hard layers
- Very simple operation



Hand penetrometer Eijkelkamp (SB)

HAND PENETROMETER EIJKELKAMP

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P1.50

The resistance to penetration (kPa/cm^2) of the soil can now be determined by dividing the reading value by the surface of the cone. The value of the resistance to penetration to be expected determines the surface of the cone to be used.

For high values the small cone is used and for low values the larger cones are applied. The larger the cone the more accurate the value of the resistance to penetration can be determined.

Applications

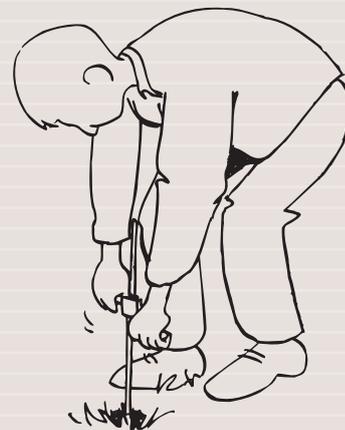
Because of their depth range the devices can be applied for the following:

- General soil research.
- Basic advise for foundations.
- Checking artificial compaction of the soil.
- Research of the growing circumstances (to be expected) of plants in the soil.
- Tracing compacted layers in the soil.

Advantages

- Compact and complete.
- Easy to operate.
- Little maintenance.

Applying the pull/push handle the extension- and probing rods can be extracted from the soil.



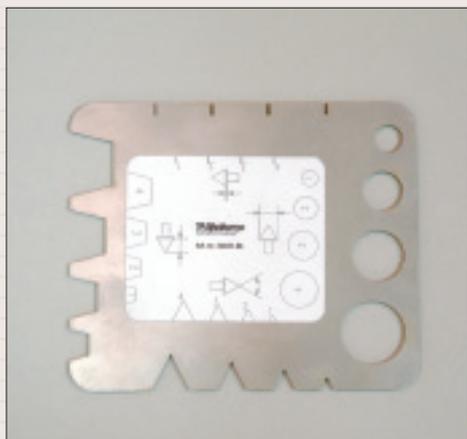
The cone check is used to inspect the wear of the cones.



Measuring instrument with manometer



Cones and probing rods



Cone check



Hand penetrometer Eijkelkamp (SA)

