

SHEAR STRESS MEASUREMENT

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14.08 Field inspection vane borer, standard set for measurement up to 160 kPa (16 t/m²) and a depth of 10 m

The robust field inspection vane borer is a somewhat heavier tool for measuring the shear strength in the field.

Without pre-drilling a hole the vane can be pushed or hammered into the soil. If the soil is too hard, then it is recommended to pre-drill a hole. Measurements can be executed up to a depth of 10 meter and a shear strength can be measured to a maximum of up to 160 kPa (16 t/m²). Because of its unique 180° slip coupling this type of vane tester can be used to measure the friction and the shear strength of the rods direct and separately.

The standard set contains, among other items: the measuring body, two vanes (60x120 mm and 75.8x151.5 mm), various extension rods, spanners, accessories and a carrying case. Optionally available is an extractor.



Measuring body robust vane tester

14.10 Pocket vane tester for measurement up to 250 kPa (2.5 kg/cm²)

The pocket vane tester is a shear strength measuring tool that is used in profile pits or on the surface. The small, practical format also makes the tool very suitable for testing on soil samples.

The short period of time the test takes allows for several measurements in the same soil or layer which in turn allows for the calculation of an average value. The shear strength can be read from a scale fitted with dragging pointer.

Conditions for correct measurement are: a flat surface, care placing of the vanes in the soil and turning the meter with a constant (relaxed) speed.

The pocket vane tester is supplied inclusive of note pad, carrying bag and 3 vanes with a measuring range of respectively 0 - 0.2 / 0 - 1 and 0 - 2.5 kg/cm².



Pocket vane tester



Field inspection vane borer set

P1.54

Measuring the shear strength in a borehole with the field inspection vane borer.

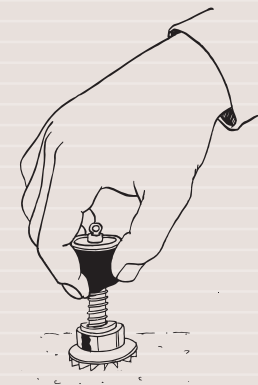


BENEFITS

14.08 Vane borer

- Rod and vane measurement in one simple go
- Sturdy construction for larger depths

The shear strength in a sample is determined with the pocket vane tester.



BENEFITS

14.10 Pocket vane tester

- Shear stress indicator for samples / profiles
- Suits the needs of pedologists and geologists
- Three rings for a wide measuring range



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