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Field inspection vane tester

14.05.01

The vane tester can be used to determine the maximum shearing force that can be exercised on a soil. The standard Field inspection Vane tester is suitable for measurements up to 200 kPa (20 t/m²).

- Perfect for measuring in top soils
- Ideal for agronomists and civil engineers
- Small but sensitive and accurate
- Drag ring for easy read-out

Description

The Royal Eijkelkamp field inspection tester can be used to measure the maximum shear force that can be applied to a soil. Measurement is possible in the field, on the surface, in profile pits, or on the bottom of boreholes, as well as on samples in the laboratory.

The shear stress measured can be read on a clearly readable scale ring. In soft soils it is not necessary to make a borehole first; in order to determine the friction on the extension rods, a dummy vane is available in these situations.

Applications

- Civil construction
- Geotechnical engineering
- Lab and in-situ testing soil and soil parameters

Set contains

- Field inspection vane tester to 200 kPa (20 t/m²)

- Vanes (3 pieces) : 0.62 x 1.25 inch (16 x 32 millimeter) (KPa 0-260, coefficient 2,6), 0.78 x 1.57 inch (20 x 40 millimeter) (KPa 0-130, coefficient 1) and 1 x 2 inch (25.4 x 50.8 millimeter) (KPa 0-65, coefficient 0,65)
- Dummy vane
- Extension rods and carrying bag are separately available

Specifications

Field inspection vane tester	
Maximum measuring range	0-260KPa

Pocket vane tester set - with 3 vanes

14.10

The pocket vane tester is a scientifically designed soil testing instrument for the rapid determination of shear strength of cohesive soils, either in the field or in the laboratory.

- Ideal for pedologists and geologists
- Perfect for measuring in top soils
- Shear stress indicator for samples/profiles
- Scientifically designed for rapid determination of shear strength of cohesive soils
- Three rings for a wide measuring range

Description

The pocket vane tester permits the determination of a large number of strength values with different orientation of failure planes. The tester is simple to use and sample trimming is eliminated. All that is required is a reasonably flat surface, 0.98 inch (25 millimeter) in diameter. This instrument is scientifically designed for the rapid determination of shear strength of cohesive soils. Thanks to the small, practical format of the instrument it can be used both in the field (profile pits or the soil surface) and in the laboratory (soil samples).

The shear strength or stress of the soil depends on different soil characteristics such as for instance: the granular composition, the humus content, the humidity and (in case of vegetation covered areas) the degree of coverage and the density of the roots.

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

Applications

- Soil profile description and classification

Set contains

- Pocket vane tester
- Notepad
- Carrying bag
- Vanes (3 pieces) with a measuring range of 0-0,2/0-1 and 0-2,5 kg/cm²

Specifications

Pocket vane tester set - with 3 vanes	
Maximum measuring depth	0.39 inch | 1 cm
Maximum shear stress	250 kPa
Measuring range	0 - 2,5 kg/cm²
Reading accuracy	1 %
Registration type	Manual
Package size	11 x 9 x 3.1 inch | 28 x 23 x 8 cm
Weight	14.1 oz | 400 g

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