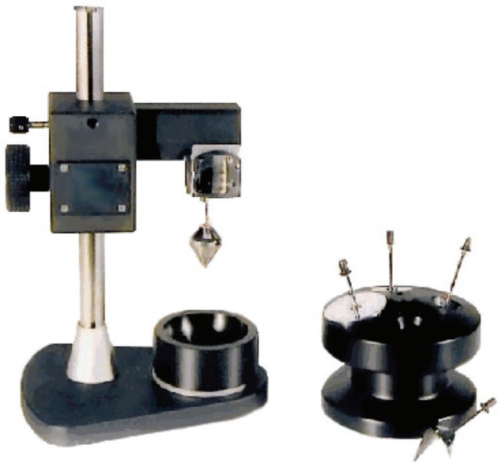
G-200 - Fall Cone Apparatus

Test Equipment



PORTABLE
EASY TO USE
FAST AND ACCURATE MEASUREMENT

The Fall Cone apparatus is used for determining the undrained shear strenght and the sensivity of undisturbed and remoulded clays

Description

The Fall Cone apparatus provides a rapid, simple and accurate method for determining the undrained shear strength and the sensisivity of both undisturbed and remoulded clays. The relationship between the depth of penetration of the fall cone and the undrained shear strength has been determined after many years of research. The equipment is also used for determination of liquid limits (fineness number).

In the new model, designed by the Norwegian Geotechnical Institute, the fall cone is suspended by a permanent magnet, and the testing capacity covers a range of shear strengths from 0.01 to 20 t/m^2.

The test is fully discussed in “New Approach to the Determination of the Shear Strength of Clay by the Fall Cone Test” by Sven Hansbo. Proc. Royal Swedish Geotechnical Institute Nov. 14, 1957.

Key Features

- Easy to operate and maintain
- Rugged construction
- Controlled rate of deformation or pressure
- Easy cyclic testing
- Conforms ASTM D4719-07
- Safe : no compressed gas necessary
- Optional equipment available for creep testing

Applications

- Determination of undrained shear strength
- Determination of liquid limits (fineness numbers)
- Deternination of sensitivity of undisturbed and remoulded clays

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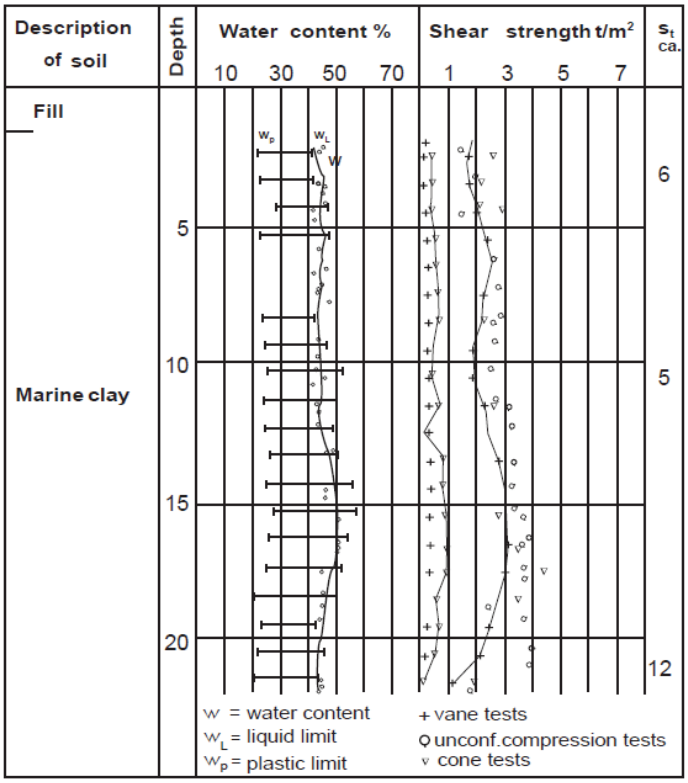
Specifications

TECHNICAL SPECIFICATIONS OF CONES

Penetration (mm)	Apex angle	Weight (g)	Undrained shear strength (kPa)
5–20	60°	10	1–0.063
5–15	60°	60	6–0.67
5–15	30°	100	40–4.5
4–15	30°	400	250–18



The diagram above shows the relation between cone tests, vane tests and unconfined ned tests. (Published by the Norwegian Geotechnical Institute).

Ordering Information

- The equipment is sold as a complete kit

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SMARTEC SA reserves the right to make any changes in the specifications without prior notice