

DATA SHEET

Oedometers, Front Loading



Three front loading oedometers (26-WF0302) fitted on consolidation bench (26-WF0312), complete with consolidation cells, displacement transducers (26-WF6207) connected to 30-WF6008 GEODATALOG 8

General description

This test determines the rate and magnitude of consolidation of a soil specimen restrained laterally and subjected to a number of successive increments of vertical loads.

The oedometer consists of a rigid aluminium alloy frame to avoid any distortion under load. The lever arm assembly is supported in precision self-aligning bearings and has three hanger positions for 9:1, 10:1 and 11:1 ratio. The oedometers fit with linear potentiometric transducers, can be connected to Data acquisition unit.

The consolidation test can also be automatically performed with the Automatic Computerized oEdometer.

Analog configuration is composed by:

- Oedometer
- Bench (see accessories)
- Consolidation cells (see accessories)
- Dial gauge (see related products)
- Weights (see accessories)

Digital configuration is composed by:

- Oedometer
- Bench
- Consolidation cells (see accessories)
- Displacement transducer (see related products)
- Data acquisition (see related products)
- Weights (see accessories)

Main features

- Compact and robust design
- 3 lever arm ratio
- Screw jack support
- Same cell for standard and permeability test
- Possible connection with Data acquisition and processing system

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Standards

- BS 1377:5
- ASTM D2435
- ASTM D3877
- ASTM D4546
- NF P94-091
- AASHTO T216
- EN 17892-5

Specifications

Max loading (using 11:1 beam ratio): 1848 kg, corresponding to 9.061 MPa (92.40 kgf/cm²) on 20 cm² specimen (50.47 mm dia.)

Overall dimensions: 500x200x750 mm (height less hanger x width x length)

Weight approx.: 21 kg



Consolidation cell, suitable for incremental loading test, swelling and permeability tests



26-WF0338/A Permeability attachment fit to the 26-WF0302 with 26-WF0320 cell

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Slotted steel weights



Three front loading oedometers (26-WF0302) fitted on consolidation bench (26-WF0312), complete with consolidation cells, dial gauges (26-WF6401).

Products

26-WF0302

Front loading oedometer to BS 1377, ASTM D2435. With lever arm ratios of 9:1 10:1 and 11:1

Accessories and consumables

26-WF0312

Oedometer bench to accept up to three oedometers. Complete with locking nuts.

26-WF0338/A

Permeability attachment with 50ml graduated burette suitable for standard oedometer

30-WF6016/T1

Consolidation Geo-Analysis for MS EXCEL Template according to BS 1377:5

30-WF6016/T8

Consolidation Geo-Analysis template conforming to ASTM

30-WF6016/T8A

Consolidation Geo-Analysis template conforming to ASTM D4546

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