



## NG-Oedometer – Front Loading Oedometers – Consolidation Test

**Standards:** [BS 1377-5](#), [ASTM D2435](#), [ASTM D3877](#),  
[ASTM D4546](#), [AASHTO T 216](#), [NF P94-090-1](#), [NF P94-091](#),  
[UNE 103-405](#), [UNE 103-602](#)



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### 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 the Data acquisition unit - See optional accessories for more information.

Consolidation cells, dial gauge/displacement transducer, weight sets and bench are not included and have to be ordered separately. See accessories.



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## 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

## Technical Specifications

- Max loading (using 11:1 beam ratio): 1848 kg, corresponding to 9.061 MPa (92.40 kgf/cm<sup>2</sup>) on 20 cm<sup>2</sup> specimen (50.47 mm dia.)
- Overall dimensions: 500x200x750 mm (height less hanger x width x length)
- Weight approx.: 21 kg



## Weight Application Guide

NG-Oedometer										
Cell Model	WF0320		WF0321		WF0325		WF0326		WF0335	
Area [cm <sup>2</sup> ]	20		31:7		40		44.16		100	
Beam Ratio	1:10		1:11		1:10		1:9		1:10	
Max pressure [kg/cm <sup>2</sup> ]	32 [kg/cm <sup>2</sup> ]	64 [kg/cm <sup>2</sup> ]	20 [kg/cm <sup>2</sup> ]	64 [kg/cm <sup>2</sup> ]	16 [kg/cm <sup>2</sup> ]	32 [kg/cm <sup>2</sup> ]	16 [kg/cm <sup>2</sup> ]	32 [kg/cm <sup>2</sup> ]	8 [kg/cm <sup>2</sup> ]	16 [kg/cm <sup>2</sup> ]
Weight Set 26-WF0230/C2	X	X	X	X	X	X	-	-	-	-
Weight Set 26-WF0230/D2	-	-	-	-	-	-	X	X	X	X
Add. Weight 8 x 27-WF0275/A	-	X	-	X	-	X	-	X	-	X
Total Weight [kg]	64	128	64	128	64	128	80	160	80	160

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