



**SOIL TEST EQUIPMENTS**  
**PRODUCT BROCHURE**

## **FRONT LOADING OEDOMETER (CONSOLIDATION) SET**

**S4110**





## PRODUCT MODEL

S4110/01	Front Loading Oedometer Set for 1 Oedometer
S4110/D-01	Digital Front Loading Oedometer Set with Electronic Displacement Sensor for 1 Oedometer
S4110/03	Front Loading Oedometer Set for 3 Oedometer
S4110/D-03	Digital Front Loading Oedometer Set with Electronic Displacement Sensor for 3 Oedometer
S4110/04	Consolidation cell for high pressure, Ø 50 mm
S4110/05	Calibration disc for consolidation cell Ø 50 mm (for S4110/04), stainless steel
S4110/06	Consolidation cell for high pressure, Ø63.5 mm (2.5 in) according to ASTM
S4110/07	Calibration disc for consolidation cell Ø63.5 mm (2.5 in) (for S4110/06), stainless steel
S4110/08	Consolidation cell for high pressure Ø 75 mm
S4110/09	Calibration disc for consolidation cell Ø 75 mm (for S4110/08), stainless steel
S4110/10	Device for the preparation of consolidation samples, for samples of Ø 50 mm
S4110/11	Device for the preparation of consolidation samples, for samples of Ø63.5 mm (2.5 in)
S4110/12	Device for the preparation of consolidation samples, for samples of Ø75 mm
S4110/W50	Set of 50 kg weights: 4 x 10 kg, 1 x 5 kg, 2 x 2 kg and 1 x 1 kg
S4110/W80	Set of 80 kg weights: 6x10 kg + 2x5 kg + 3x2 kg + 2x1 kg + 3x500 g + 2x250 g



## FRONT LOADING OEDOMETER (CONSOLIDATION) SET

### STANDARDS

Standards	BS 1377   ASTM D2435, D3877, D4546   AASHTO T216
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### INFORMATION

Manufacturer	TESTMACLAB LABORATUVAR TEST CİHAZLARI PAZ. VE DIŞ TİC. LTD. ŞTİ
Country of Origin	TÜRKİYE
Product name	Front Loading Oedometer Set

### DESCRIPTION

Fixed Knife Front Loading Oedometer is a frame manufactured from aluminium alloy to provide a high degree of accuracy with minimum distortion.

The frame is designed to load the sample via a lever arm assembly and one of three alternative beam ratios 9:1, 10:1 and 11:1. The beam is fitted with a counterweight and beam support cylinder.

The cell platform accepts the full range of consolidation cells and is fitted with a central spigot to ensure accurate centring of the cell under load.

The fixed ring consolidation cells are manufactured from corrosion resistant materials and comply with the requirements of the relevant standards. An integral water reservoir is incorporated into the cell, allowing the sample to be flooded if required. All cells are supplied with a top and bottom porous disc, pressure pad and cutting ring (sample).

#### Features

- Frame made of aluminum alloy to allow a high degree of precision with a minimum of deformation.
- The lever is 3 ratio 9:1; 10:1 and 11:1 and is equipped with an adjustable counterweight.
- This oedometer accepts cells up to 100 cm<sup>2</sup>.
- Supplied with 10 mm vertical displacement sensor with bracket and calibration

#### The Front Loading Oedometer set (S4110/01) is supplied with:

- 1 pcs Consolidation bench for 1 oedometers
- 1 pcs Oedometer
- 1 pcs 10x0.01 mm dial gauge
- 1 pcs 50 kg set of weights: 4 x 10 kg, 1 x 5 kg, 2 x 2 kg and 1 x 1 kg



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## FRONT LOADING OEDOMETER (CONSOLIDATION) SET

### The Front Loading Oedometer set (S4110/03) is supplied with:

- Consolidation bench for 1 oedometers (1 pcs)
- Oedometer (3 pcs)
- 10x0.01 mm dial gauge (3 pcs)
- 50 kg set of weights: 4 x 10 kg, 1 x 5 kg, 2 x 2 kg and 1 x 1 kg, 2 x 2 kg and 1 x 1 kg (3 pcs)

### The Front Loading Oedometer set with electronic displacement sensor (S4110/D-01) is supplied with:

- Consolidation bench for 1 oedometer (1 pcs)
- Oedometer (1 pcs)
- Linear potentiometric displacement transducer 10x0.01 mm (1 pcs)
- Set of 50 kg weights: 4 x 10 kg, 1 x 5 kg, 2 x 2 kg and 1 x 1 kg (1 pcs)
- Electronics for data transfer and processing on a data acquisition unit
- Software for consolidation tests

### The Front Loading Oedometer set with electronic displacement sensor (S4110/D-03) is supplied with:

- Consolidation bench for 3 oedometers (1 pcs)
- Oedometer (3 parts)
- Linear potentiometric displacement transducer 10x0.01 mm (3 pieces)
- Set of 50 kg weights: 4 x 10 kg, 1 x 5 kg, 2 x 2 kg and 1 x 1 kg (3 piece)
- Electronics allowing the transfer and exploitation of data on an acquisition center
- Software for consolidation tests

## TECHNICAL SPECIFICATIONS FOR CELL

Cell Product Code	S4110/04	S4110/06	S4110/08
Application	High Pressure	ASTM	BS/EN
Sample Diameter	50 mm	63.5 mm	75 mm
Sample Surface	1963 mm <sup>2</sup>	4.906 inch <sup>2</sup>	4416 mm <sup>2</sup>
Beam Ratio	10:1	11:1	9:1
Total Load	64 kg	64 kg	80 kg
Stress	32 kg/cm <sup>2</sup>	20 t/ft <sup>2</sup>	16.3 kg/cm <sup>2</sup>
Stress for 1 kg	0.5 kg/cm <sup>2</sup>	0.3125 ton/ft <sup>2</sup>	0.2/cm <sup>2</sup>



## TECHNICAL SPECIFICATIONS

Product Code	S4110/01	S4110/D-01	S4110/03	S4110/D-03
Dimensions	250x750x1400 mm	250x775x1400 mm	250x775x1400 mm	750x775x1400 mm
Weight	95 kg	100 kg	140 kg	145 kg

## TECHNICAL SPECIFICATIONS FOR WEIGHT

Product Code	Weight Sets for Consolidation	
S4110/W16	16 kg Weight Set	(2) 5 kg, (1) 2 kg, (2) 1 kg, (3) 0.5 kg, (2) 0.25 kg
S4110/W32	32 kg Weight Set	(1) 10 kg, (3) 5 kg, (2) 2 kg, (1) 1 kg, (3) 0.5 kg, (2) 0.25 kg
S4110/W50	50 kg Weight Set	(3) 10 kg, (2) 5 kg, (3) 2 kg, (2) 1 kg, (3) 0.5 kg, (2) 0.25 kg
S4110/W64	64 kg Weight Set	(4) 10 kg, (3) 5 kg, (2) 2 kg, (3) 1 kg, (3) 0.5 kg, (2) 0.25 kg
S4110/W80	80 kg Weight Set	(6) 10 kg, (2) 5 kg, (3) 2 kg, (2) 1 kg, (3) 0.5 kg, (2) 0.25 kg



## THANK YOU

### FOR CHOOSE US

Dear business partners, thank you very much for believing in us and recommending our products to your customers; We sincerely believe that our company will grow even more thanks to you, our esteemed business partners.

You can reach us than our phones or e mail address 24 hours a day.

## CONTACT US



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