



**Front Loading Oedometer
(Consolidation) Set**

SOIL

Front Loading Oedometer (Consolidation) Set



PRODUCT MODEL

S4110	Front Loading Oedometer (Consolidation) Set
S4110/01	Bench for Consolidation for 3 Oedometer
S4110/02	Bench for Consolidation for 1 Oedometer
S4110/03	Oedometer
S4110/04	Consolidation Cell for High Pressure, Ø 50 mm
S4110/05	Calibration disc for Ø 50 mm consolidation cell (S4110/04), stainless steel
S4110/06	Consolidation Cell for High Pressure, ASTM Ø 63.5 mm (2.5")
S4110/07	Calibration disc for Ø 63,5 mm consolidation cell (S4110/06), stainless steel
S4110/08	Consolidation Cell for High Pressure, BS/EN, Ø 75 mm
S4110/09	Calibration disc for Ø 75 mm consolidation cell (S4110/08), stainless steel
S4110/W50	Set of Weight for Consolidation - 50 kg (3x10 kg + 2x5 kg + 3x2 kg + 2x1 kg + 3x500 g + 2x250 g)
S4110/W80	Set of Weight for Consolidation - 80 kg (Set of Weight for Consolidation, 80 kg (6x10 kg + 2x5 kg + 3x2 kg + 2x1 kg + 3x500 g + 2x250 g)
G290/03	Analog Dial Gauge 30x0.01 mm
G295/02	Digital Dial Gauge 25x0.01 mm, LCD display, data output

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G295/01	Digital Dial Gauge 12.7x0.01 mm, LCD display, data output
G340/01	Linear Potentiometric Displacement Transducer, 10x0,001mm
G340/02	Linear Potentiometric Displacement Transducer, 25x0,001mm
G285/4	Static Unilogger, 4 Channel Data Acquisition Unit
G285/8	Static Unilogger, 8 Channel Data Acquisition Unit
S4110/10	Software for Consolidation Test
S4110/11	Apparatus for prepare Consolidation Sample, for Ø 50 mm. samples
S4110/12	Apparatus for prepare Consolidation Sample, for Ø 63.5 mm. samples
S4110/10	Apparatus for prepare Consolidation Sample, for Ø 75 mm. samples

PRODUCT STANDARDS

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

Manufacturer	TESTMAK INS.LAB.MAK.SAN.VE TİC. PAZ. İTH. İHR. LTD. STİ
Country of Origin	TURKEY
Product name	Front Loading Oedometer (Consolidation) Set

DESCRIPTION

The Consolidation test is used to determine the consolidation characteristics of soils of low permeability. The S4110 Front Loading Oedometer is rigidly constructed to ensure minimum frame distortion. The frame is designed to load the specimen through a lever arm assembly and one of three alternative beam ratios as 9:1, 10:1 and 11:1. The beam is fitted with a counter balance weight and beam support jack. The cell platform will accept the complete range consolidation cells and is fitted with a central spigot to ensure accurate centering of the cell under the loading.

The TESTMAK fixed ring consolidation cells are manufactured from corrosion-resistant materials and conform to the requirements of the relevant standards. An integral water reservoir is incorporated in the cell which allows the specimen to be inundated when required. All cells are supplied complete with upper and lower porous disc, pressure pad and cut-

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ting (specimen) ring.

Consolidation cell, dial gauge or displacement transducer and data logger, bench, weights, apparatuses for prepare Consolidation samples and calibration disc should be ordered separately.

S4110 Front Loading Oedometer (Consolidation) Set is supplied complete with;

- TMS-4111 | Oedometer - 1 pcs
- TMS-4112 | Bench for Consolidation, 1 Oedometer Capacity - 1 pcs
- TMS-4114 | Consolidation Cell for High Pressure, ASTM Ø 63.5 mm (2.5") - 1 pcs
- TMS-4117 | Calibration Disc for Ø 63,5 mm Consolidation Cell - 1 pcs
- TMS-4124 | Set of Weight for Consolidation - 80 kg (6x10 kg + 2x5 kg + 3x2 kg + 2x1 kg + 3x500 g + 2x250 g)
- TMG-0936 | Analog Dial Gauge, 30x0.01 mm - 1 pcs

TECHNICAL SPECIFICATIONS

Cell P.Code	S4110/04	S4110/06	S4110/06
Aplication	High Pressure	ASTM	BS/EN
Specimen Diameter	50 mm	63.5 mm	75 mm
Specimen Area	1963 mm	4.906 inch	4416 mm
Beam Ratio	10:1	11:1	9:1
Total Load	64 kg	64 kg	80 kg
Stress	32 kg/cm ²	20 t/ft ²	16.3 kg/cm ²
Stress for 1 kg	0.5 kg/cm ²	0.3125 ton/ft ²	0.2/cm ²

P. Code	Sets of Weight for Consolidation	
S4110/W16	16 kgf Set	(2) 5 kg, (1) 2 kg, (2) 1 kg, (3) 0,5 kg, (2) 0,25 kg
S4110/W32	32 kgf Set	(1) 10 kg, (3) 5 kg, (2) 2 kg, (1) 1 kg, (3) 0,5 kg, (2) 0,25 kg
S4110/W50	50 kgf Set	(3) 10 kg, (2) 5 kg, (3) 2 kg, (2) 1 kg, (3) 0,5 kg, (2) 0,25 kg
S4110/W64	64 kgf Set	(4) 10 kg, (3) 5 kg, (2) 2 kg, (3) 1 kg, (3) 0,5 kg, (2) 0,25 kg
S4110/W80	80 kgf Set	(6) 10 kg, (2) 5 kg, (3) 2 kg, (2) 1 kg, (3) 0,5 kg, (2) 0,25 kg



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