

### Consolidation Test Apparatus

Make: LabTek

Model: SUN-SL-001

Origin: India

Standards: BS 1377 | ASTM D2435, D3877, D4546 | AASHTO T216

,IS : 2720 (Part-XV)BS 1377

The apparatus has been designed to reduce the testing time for triaxial tests, where only one compression machine is available. With this equipment it is possible to perform the consolidation stage of three triaxial specimens at the same time for CU and CD tests in anisotropic conditions.

The apparatus consists of a steel bench complete with three load frames and centering platens, for all our triaxial cells for specimens 35 to 100 mm dia. It can also be used for other make of triaxial cells, provided that they are equipped with a centering hole 13 mm dia. x 3 mm deep. Each consolidation frame can be equipped with a beam loading device to reduce the number of dead weights required for anisotropic consolidation (see accessories).

Weights can be placed on both the centre hanger and on the lever hanger. The weights of the loading frames have been reduced to minimum so that a counterbalance of the frame is not required. The apparatus has to be completed with the axial displacement gauges or transducers, Beam loading device(s) and Slotted weights. See accessories.

Overall dimensions (lxdxh): 1300x800x970 mm

Weight approx.: 145 kg

To perform simultaneously the anisotropic consolidation stage of three triaxial specimens

To reduce the testing time where only one triaxial compression machine is available

For triaxial cells up to 100 mm dia. specimens

Ergonomic design for better use of space in the laboratory

Suitable for other make of triaxial cells (with little adjustment)



Accessories : Dial Gauge 0.002 mm x 10 mm  
 . Extension piece, 40 mm long. Test forms pad of 50 for "Consolidation Test Plot" Test forms pad of 50 for one Dimensional Consolidation. Set of weights to give a pressure of 10 kg/cm. sq. on 60 mm dia specimen, comprising: 7 Nos. 0.05 kg/sq.cm, 5 Nos. 0.1 kg/sq.cm., 6 Nos. 0.2 kg/sq.cm., 6 Nos. 0.5 kg/sq.cm., and 5 Nos. 1.0 kg/sq.cm.  
 Supplied complete as above but with dial gauge.

### Direct Shear test Apparatus

Make: LabTek

Model: SUN-SL-002

Origin: India

Standards: TS 1900-2 | ASTM D3080 | BS 1377-7 | AASHTO T236 |

NF P094 071-1/2

Supplied with load yoke with direct and lever system for applying load. Normal stress capacity 8 kg/sq.cm. Load is applied either directly or through a counter balanced detachable lever. Provision is made for the load to be applied either through a steel ball recessed in the loading pad or direct through a boss on the pre calibrated loading yoke, the loading unit is provided with V strips and roller strips for frictionless movement of shear box housing.

Shear Box Assembly :Comprising Direct Shear box in two halves for a square specimen size 60 x 60 x 25 mm one pair of plain gripper plates, one pair of perforated gripper plates, one pair of porous stones, one top loading pad. Shear box housing: Accommodates the Direct Shear Box assembly. Complete with two ball roller strips.

Specimen Cutter: For cutting 60 x 60 x 25 mm specimen from larger samples.

Set of weights to give a normal stress of 3 kg/sq.cm. through lever as follows:

To give Kg/sq.cm. Qty. 0.05 4 Nos. 0.1 1 Nos. 0.2 1 Nos. 0.5 3 Nos. 1.0 1 Nos.

Complete set as above but without proving ring.

Essential Accessories : High sensitivity compression proving ring cap 200 kg One Consolidation dia gauge 0.01 mm x 25 mm and one strain dial gauge 0.01 mm x 25 mm and one strain dial gain 0.01mm x 25 mm.

Optional Extras : Additional set of weights to give a normal stress of 5 kg/cm<sup>2</sup>. Soil Sampler for 60 mm x 60 mm specimen and test form pad of 50. Spares: Porous stone for 60 mm x 60 mm size sample available in pairs.

The Automatic Direct Residual Shear Test Machine is supplied complete with; Load Cell 5 kN

Linear Potentiometric Displacement Transducer (10x0.001 mm)

Linear Potentiometric Displacement Transducer (25x0.001 mm)

Software

Shearbox Assemblies, Slotted Weight Set and other optional accessories including cutting ring and extrusion dolly should be ordered separately

