

**Product Name :**  
Triaxial Test Apparatus

**Product Code :**  
LIM-CAT-L0044-00027



**Description :**

Triaxial Test Apparatus

**Technical Specification :**

Triaxial Test Apparatus

In a Triaxial shear test, stress is applied to a sample of the material being tested in a way, which results in stresses along one axis being different from the stresses in perpendicular directions.

This is typically achieved by placing the sample between two parallel platens, which apply stress in one (usually vertical) direction, and applying fluid pressure to the specimen to apply stress in the perpendicular directions.

This is done by our testing apparatus which allows application of different levels of stress in each of three orthogonal directions X, Y, Z Axis are discussed below, under "True Triaxial test".)

The application of different compressive stresses in the test apparatus causes shear stress to develop in the sample; the loads can be increased and deflections monitored until failure of the sample.

From the Triaxial test data, it is possible to extract fundamental material parameters about the sample, including its angle of shearing resistance, apparent cohesion, and dilatancy angle.

For 38/50mm dia x 76/100mm high soil specimen, Load Cell 5 k N, Block with One Connection Line for Triaxial Test Cells, Pressure Transducer, Oil and Water Constant Pressure System, Automatic Volume Change Unit, Interface Unit with 4 Channel for Data Acquisition, Cracked Software to Perform UU, CU, CD Triaxial Tests, De-Airing Water Tank, 7 L and Hose.

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