Servo-Controlled Rock Direct Shear System (RDS-200)

DESCRIPTION

The GCTS Rock Direct Shear System is a simple and inexpensive device for testing a wide range of rock specimen configurations. Cylindrical cores, cubes, prisms, and rock fragments can be used to determine the shear strength.

This system features electro-hydraulic closed-loop digital servo control of the shear and normal loads for test automation. The included software program accepts inputs from the normal load sensor and up to four normal deformation sensors (the software calculates automatically the average normal deformation). Loads or deformations for both the shear and normal actuators can be prescribed for automatically performing advanced tests such as the Constant or Calculated Normal Stiffness Direct Shear Test.

Specimens are cured within removable specimen rings and then dropped inside the shear box allowing the preparation of multiple specimens using additional rings increasing test production.

Also available, as an alternative, is an economical Digital Direct Shear system driven with manual pumps.

SPECIFICATIONS

Contact GCTS for full specifications

SHIPPING

Volume .................. 2.7 m³

Weight ................... 1,100 kg