

UNIAXIAL UNCONFINED COMPRESSIVE TESTING MACHINE

STANDARDS: ASTM D2166, ASTM D1663, AASHTO T208

Uniaxial Unconfined Compressive Testing Machine is designed to perform Uniaxial Unconfined Compressive Tests to examine the behavior of a soil sample that does not need lateral support under axial load. As a result of this test, the unconfined compressive strength (q_u) value and the undrained shear strength (c_u) value of cohesive soils are obtained.

The device is composed of a robust and compact two column frame with adjustable upper cross beam driven by an electromechanical ram with a maximum capacity of 50 kN or 100 kN and a data acquisition and processing system.

Two models are available as 50 kN and 100 kN capacity.

The testing speed can be set between 0,5 mm/min to 2 mm/min.

The speed setting of the loading plate is controlled from the digital readout unit.

For safety, the up and down travel of the lower platen is limited the use of limit switches.

The measuring system consists of a 50 kN or 100 kN capacity load cell according to capacity of frame fitted to the upper cross beam to read stability values and the 25 mm Displacement Sensor fitted to the column.

Supplied complete with LCD Uniaxial Control Unit, 50 kN or 100 kN capacity Load Cell according to capacity of frame, 25 x 0.01 mm Linear potentiometric displacement transducer with holder, Compression Platens with ball seating assembly,



HR-S1000

Technical Specifications:

Product Code	HR-S1000	HR-S1005
Product Name	Uniaxial Unconfined Compressive Testing Machine	
Test Speed	0,5 - 2 mm/min.	
Capacity (kN)	50	100
Dimensions (cm)	47x70x110	52X72X110
Weight (kg)	80	90
Power Supply	220 V, 50-60 Hz, 1 ph	

Spare Parts & Accessories:

Product Code	Product Name
HR-S1000/F	Uniaxial Unconfined Compressive Testing Frame, 50 kN
HR-S1005/F	Uniaxial Unconfined Compressive Testing Frame, 100 kN
HR-G0981	Load Cell, 50 kN capacity
HR-G0982	Load Cell, 100 kN capacity
HR-G0995	Displacement Sensor, 25 x 0,01 mm
HR-S1000/2	LCD Uniaxial Control Unit
HR-S1010	Compression Platens with ball seating assembly