

# HİRA TESTING EQUIPMENT



## CBR & MARSHALL & UNAXIAL TESTING MACHINE

CBR & Marshall & Uniaxial Testing Machine is used to make CBR, Marshall and Uniaxial Unconfined Compressive Tests.

The device is composed of a robust and compact two column frame with adjustable upper cross beam driven by an electromechanical ram.

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

The testing speed can be set between 0,001 mm/min to 51mm/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 CBR & Marshall & 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.

The other Test Accessories should be ordered separately according to the test. Compression Platens with ball seating assembly for Uniaxial Tests, Penetration Piston for CBR Tests and Breaking Head for Marshall Tests should be ordered separately.

### Technical Specifications:

Product Code	HR-AS0500	HR-AS0501
Product Name	CBR & Marshall & Uniaxial Testing Machine	
Test Speed	0,001 - 51 mm/min	
Capacity (kN)	50	100
Dimensions (cm)	47x70x110	52X72X110
Weight (kg)	100	110
Power Supply	220 V, 50-60 Hz, 1 ph	

### Spare Parts & Accessories:

Product Code	Product Name
HR-AS0500/1	CBR & Marshall & Uniaxial Frame, 50 kN
HR-AS0501/1	CBR & Marshall & Uniaxial 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-E9000	LCD CBR & Marshall & Uniaxial Control Unit

## UNIAXIAL TEST SYSTEMS

STANDARDS: ASTM D2166, AASHTO T208

Compression Platens, used to perform uniaxial and unconfined compression tests.

Supplied complete with ball seating assembly.

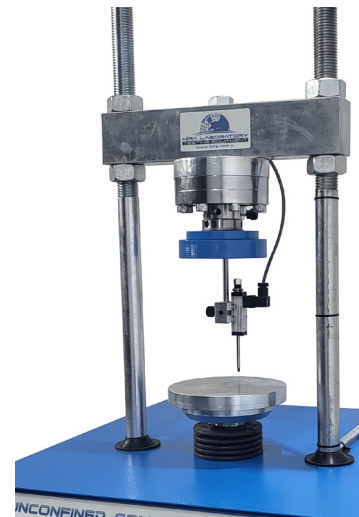
### Spare Parts & Accessories:

Product Code	Product Name
HR-S1010	Compression Platens with ball seating assembly



HR-AS0500 & HR-AS5000/1

HR-S5000/1



HR-AS0500/1 & HR-G0981  
HR-G0995 & HR-S1010

## CBR TEST SYSTEMS

STANDARDS: EN 13286-47, BS 1377:4, ASTM D1883, AASHTO T193, NF P94-078, UNI CNR 10009

Should be used with CBR Penetration Piston to perform CBR Tests.

### Spare Parts & Accessories:

Product Code	Product Name
HR-S5000/1	CBR Penetration piston, used to perform CBR Tests



**HR-AS0500/1 & HR-G0981  
HR-G0995 & HR-AS5000/1**



**HR-AS0500/1 & HR-G0981  
HR-G0995 & HR-S5000/1  
HR-S5100**

## MARSHALL TEST SYSTEMS

STANDARDS: EN 12697-34, 12697-23, 12697-12, 13108, ASTM D1559, AASHTO T245

Should be used with Breaking Head Stability Mould for 4" (101,6 mm) or 6" (152,4 mm) Marshall Samples and Adaptor for Breaking Head to perform Marshall Tests.

### Spare Parts & Accessories:

Product Code	Product Name
HR-AS5000/1	Breaking Head Stability Mould for 4" (101,6 mm) Marshall Samples
HR-AS5000/2	Breaking Head Stability Mould for 6" (152,4 mm) Marshall Samples