

## HİRA TESTING EQUIPMENT

### BENKELMAN BEAM DEVICE

STANDARDS: AASTHO T256-77, CNR N141

Benkelman Beam Device, aluminum alloy made, complete with dial indicator and accessories, it is utilized to measure the deflection of the road surface when loaded by the wheels of vehicles.

The beam is put in contact with the pavement under test between the tires of the vehicle. The measurement of the deflection is performed when the vehicle passes over the test area.

Length of the Benkelman beam is 250 cm. Beam fulcrum ratio 4:1.

Supplied complete with wooden carrying case.



#### Technical Specifications:

Product Code	Product Name	Weight (kg)
HR-AS0900	Benkelman Beam Apparatus	16

#### Spare Parts & Accessories:

Product Code	Product Name
HR-AS0900/1	Wooden Carrying Case
HR-G0876	Analog Dial Gauge, 30 x 0,01 mm
HR-G0878	Digital Dial Gauge, 25 x 0,01 mm
HR-G0880	Digital Dial Gauge, 25 x 0,001 mm

### PLATE BEARING EQUIPMENT

STANDARDS: NF P94-117-1

To determine the static deformation of flexible road pavement in the centre of the loading plate, the bearing capacity and deflection of subgrade and subbase of roads.

Used with the Benkelman Beam Apparatus.

HR-AS0950 Plate Bearing Equipment consists of Bearing plate 600 mm diameter cast aluminium, Piston assembly 200 kN capacity, Hydraulic hand pump, High Pressure Hose and Connection Apparatus and Analog manometer.

HR-AS0955 Digital Plate Bearing Equipment consists of Bearing plate 600 mm diameter cast aluminium, Piston assembly 200 kN capacity, Hydraulic hand pump, High Pressure Hose and Connection Apparatus, Analog Manometer, Pressure Transducer and Battery Operated Digital Readout Unit.



## Spare Parts & Accessories:

Product Code	Product Name	Capacity
HR-AS0950/1	Bearing Plate	Ø 600 mm
HR-AS0950/2	Piston Assembly	200 kN
HR-G9000	Hydraulic Hand Pump	700 bar
HR-G9000/1	High Pressure Hose and Connection Apparatus	---
HR-G9010	Analog Manometer	---
HR-S5654	Pressure Transducer	---
HR-S5655	Battery Operated Digital Readout Unit	---
HR-AS0950/2	Wooden box for HR-AS0950 & HR-AS0955	---

## Technical Specifications:

Product Code	Product Name	Weight (kg)
HR-AS0950	Plate Bearing Equipment	100
HR-AS0955	Digital Plate Bearing Equipment	102



HR-AS0950

## ASPHALT MIXTURE MAXIMUM THEORY DENSITY METER

Maximum theory density meter for Asphalt Mixture used to determine the theoretical maximum specific gravity of un-compacted bituminous paving mixtures by vacuum process. It is used to design the ratio of bituminous mixtures, survey the road condition or calculate the void ratio and compactness of road construction.

Complete With 2 pieces 5 Lt Stainless Steel Vacuum Pycnometer, Vibro-Deaerator, Vacuum Pump, tubing for vacuum, Vacuum Gauge and Air Drying Unit (Water trap).



HR-AS0925

## Technical Specifications:

Product Code	Product Name	Weight (kg)	Power Supply
HR-AS0925	Maximum Theory Density Meter	50	220 V, 50-60 Hz, 1 ph

## Spare Parts & Accessories:

Product Code	Product Name	Capacity	Dimensions (cm)	Weight (kg)	Power Supply
HR-AS0925/1	Vacuum Pycnometer	5 Lt	85x57x46	40	---
HR-G0500	Vibro-Deaerator	---	---	---	220 V, 50 Hz, 1 ph
HR-G0500/60Hz	Vibro-Deaerator	---	---	---	220 V, 60 Hz, 1 ph
HR-G0800	Vacuum Pump	51 Lt/min. - 2 Pa	29x13x23	6,6	220 V, 50-60 Hz, 1 ph
HR-G0815	Tubing for Vacuum	1,5 m	---	---	---
HR-AS0925/2	Vacuum Gauge Manometer	1000 mbar	Ø 6,3	0,15	---
HR-AS1550/2	Air Drying Unit (Water Trap)	500 g	---	---	---
HR-G0935	Silica Gel, 1 kg	1 kg	---	1	---