

# HİRA TESTING EQUIPMENT

## LENGTH CHANGE (SHRINKAGE AND EXPANSION)

STANDARDS: EN 12808-4, EN 1367-4, EN 12617-4, ASTM C151, C490

Used to measure the length variations of mortar specimens after autoclave soundness tests.

It also measures the linear shrinkage/expansion of specimens having different dimensions.

The set consists of Length Measuring Frame, Steel Mould according to the related standard, Steel Inserts for mould and Reference Rod. The set is available in three models; with 0,01 mm Analogue Dial Gauge, with 0.01 mm Digital Dial Gauge and with 0.001 mm Digital Dial Gauge.

40x40x160 mm mm Three Gang Mould, complete with steel inserts, used for the determination of linear shrinkage of cement mortar. Made from hardness steel.

25x25x285 mm Two Gang Prism Mould, complete with steel inserts, used for the determination of linear shrinkage of cement mortar.

Length Comparator; the top beam is adjustable to suit the specimen's length.

Analog Dial Indicator; 10 x 0,01 mm division.

Digital Dial Indicator has two alternatives as 12.7 x 0,01 mm or 12.7 x 0,001 mm resolution.

### Technical Specifications:

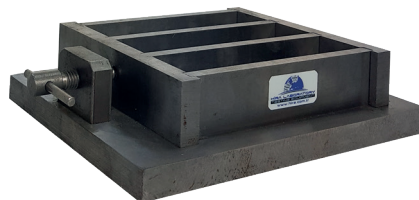
Product Code	Product Name
HR-CE0905/AS	Analog Drying Shrinkage Set with HR-CE9000/T & HR-G0875
HR-CE0915/DS	Digital Drying Shrinkage Set with HR-CE9000/T & HR-G0877
HR-CE0905/DS	Digital Drying Shrinkage Set with HR-CE9000/T & HR-G0879
HR-CE0910/AS	Analog Drying Shrinkage Set with HR-CE9010 & HR-G0875
HR-CE0920/DS	Digital Drying Shrinkage Set with HR-CE9010 & HR-G0877
HR-CE0910/DS	Digital Drying Shrinkage Set with HR-CE9010 & HR-G0879

### Spare Parts & Accessories:

Product Code	Product Name	Dimensions (mm)	Weight (kg)
HR-CE9000/T	Three Gang Mould, 40x40x160 mm	300x190x70	12
HR-CE9000/1	Steel Insert for HR-CE9000/T (Pack of 10)	---	---
HR-CE9000/2	Reference Rod, 160 mm	160	---
HR-CE9010	Two Gang Prism Mould, 25x25x285 mm	90x340x40	4
HR-CE9010/1	Steel Insert for HR-CE9010 (Pack of 10)	---	---
HR-CE9010/2	Reference Rod, 305 mm	305	---
HR-A0905	Length Comparator	180x180x450	6
HR-G0875	Analog Dial Indicator, 10 x 0,01 mm	---	---
HR-G0877	Digital Dial Indicator, 12.7 x 0,01 mm	---	---
HR-G0879	Digital Dial Indicator, 12.7 x 0,001 mm	---	---



HR-CE9010 with HR-CE9010/1 & HR-CE9010/2



HR-CE9000/T



HR-CE9010/2



HR-CE9010/1



HR-A0905 with HR-G0877



HR-A0905 with HR-G0875