



**EIE INSTRUMENTS PVT. LTD.**  
(An ISO 9001 : 2008 Certified Company)

## Lab Equipments for Paver Block as per IS-15658



**With  
NABL  
Calibration  
Services**

## Lab Equipments for Paver Block as per IS-15658

Established since 1977, We are one of the major Manufacturers and Suppliers of Lab Equipments for Paver Block as per BIS/ASTM/ISO/DIN and other international standards.

### Approved Vendors to:

Vyara tiles Pvt.Ltd; Surat, Shriram Institute of Industrial Research New Delhi, Pave-Espania, Shree Gobind Damodar Laboratory Private Limited: Patna, Hi-tech Civil Test Labs Pvt. Ltd. Bhopal, Bureau of Indian Standards: Kolkata, Hindustan Test House – Ambala, Krishna Digital Material Testing Laboratory Bhopal, Mananda Test House-Mohali, etc.

### Our Strength:

- Experience of Over 45 Years.
- Original Equipments Manufacturer (OEM)
- Large Scale Manufacturing Facility built on enormous 150,000 square feet factory area.
- NABL accredited Calibration Lab.
- Strong team of 300+ experienced and dedicated professionals.
- Committed to provide after sales services to customers.

Product List and few catalogs enclosed.

### Please Contact Us for:

- Laboratory Testing Instruments Requirement.
- Laboratory Instruments Service and AMC.
- Annual Calibration and Validation Services.



## **COMPRESSION TESTING MACHINE - 2000 KN-AUTOMATIC PACE RATE CONTROLLED**



Manufactured as per International design, Plate model for highest mechanical stability, accurate centering of load and excellent repeatability. Automatic pace rate control, auto stop and manual release on failure of test specimen.

### **Frame:**

- Four column high stiffness welded frame tested for stability.
- Heavy duty spherical seat , allowing initial free alignment at the initial contact with the specimen and automatic jamming up to the end of test.
- Surface hardness of platen is 55 HRC, flatness tolerance 0.03 mm. Traceable certificate of surface hardness available on request.
- Piston travel limit switch (Extra cost)
- Emergency stop button

**Also available with Split Tensile Test Attachment.**

### **Compliance Standards:**

EN 12390-4, ASTM C39, AASHTO T22, IS : 14858 (2000)

### **COMPRESSION TESTING MACHINE - 2000 KN-FULLY AUTOMATIC - SERVO CONTROLLED**



Manufactured as per International design, Plate model for highest mechanical stability, accurate centering of load and excellent repeatability. Fully Automatic pace rate control, auto stop and auto release on failure of test specimen, can be attached with flexural load frame or 500 KN load frame.

#### **Frame:**

- Four column high stiffness welded frame tested for stability.
- Heavy duty spherical seat, allowing initial free alignment at the initial contact with the specimen and automatic jamming up to the end of test.
- Surface hardness of platen is 55 HRC, flatness tolerance 0.03 mm. Traceable certificate of surface hardness available on request.
- Piston travel limit switch (Extra cost)
- Emergency stop button
- Servo motor driven machine
- Displacement controlled machine also available (at extra cost)

**Also available with Split Tensile Test Attachment.**

#### **Compliance Standards:**

EN 12390-4, ASTM C39, AASHTO T22, IS : 14858 (2000)



### LOADING UNIT FOR SPLITTING TENSILE TESTING MACHINE



#### Details:

A loading unit for a splitting tensile testing machine, designed in accordance with IS 15685 standards, is used to evaluate the tensile strength of concrete cylinders. This unit ensures accurate application of load along the diameter of the specimen, inducing tensile stress. This instrument is used to measure the splitting tensile strength of the paver block as per BIS code 15658

## PAVER BLOCK FLEXURAL TESTING MACHINE - WITH AUTOMATIC PACE RATE CONTROL



### Introduction:

Electro-Mechanical Design, quite and vibration free operation, Automatic Pace rate control @ 6 KN/min.

- Capacity : 100 KN
- Least Count : 0.001 KN
- Accuracy : 0.2% of Full Scale

### Compliance with following international standards:

IS : 15658 (Annex G)

### Details:

- Standard Digital Model with Load Cell
- Suitable for FLEXURAL Test of PAVER BLOCK as BIS 15658
- Direct reading possible for different shapes of blocks
- Controls automatic pace rate @ 6 kn / min
- Direct Display of Load / Collapsing Force
- Auto-stop upon completion of Test.
- Provision for emergency switch in case, if user wants to stop the load applicator at certain height
- With embedded push buttons operation on Digital panel.

### PAVER BLOCK ABRASION TESTING MACHINE WITH DIGITAL COUNTER-



#### Details:

The tile sample is pressed under a specified load against a grinding path strewn evenly with an abrasive powder revolving at the rate of  $30 \pm 1$  r.p.m. At the end of 100 revolutions of the disc the second parallel side of the tile is subjected to wear for an equal number of revolutions of the disc. The wear of tile is measured using a thickness gauge. The Abrasion testing machine consists of a replaceable grinding path fitting on to a disc rotating its vertical axis. The rotating disc and gridding path are enclosed by a circular tray. A bracket holds the specimen. The loading is by a counter balanced lever. A funnel is provided to facilitate charging the grinding path with abrasive powder. Supplied complete with automatic preset revolution counter and one 7.5 kg weight, with 1 kg abrasive powder and dial thickness gauge to measure abrasion of tile after the test. Suitable for operation 230 V, single phase, Ac supply.

### **HOT AIR OVEN- DIGITAL-45X45X45 CM-250°C-INNER S.S. CHAMBER**



#### **Salient features :**

- CE Certified
- Internal circuit wiring as per CE Norms
- 65mm high density Glass wool insulation on all sides to offer minimum chamber heat loss
- Oven is fitted with heating elements on all three sides, ensuring uniform temperature distribution throughout the working chamber
- Sealed and enclosed heaters to working chamber for minimum heat loss
- 80/20 nichrome heating elements, ensuring long lasting and continuous heating within the chamber
- Special heavy duty Stainless steel lock and door hinges with spring and roller mechanism
- Stainless steel crimped wire mesh Shelves to withstand heavy load and to offer minimum resistance to air circulation for better heat distribution
- Provision to add more shelves, as per requirement of test - Adjustable Shelves to place test samples or Glass wares of varying dimensions
- Adjustable air ventilation mounted at top
- Operation on 220/230 Volt, 50 Hz, Single phase, AC Supply



### PLANIMETER - SLIDING BAR PATTERN - 60CM/28"



#### Introduction:

A planimeter, also known as a platometer, is a measuring instrument used to determine the area of an arbitrary two-dimensional shape.

#### Detailed Descriptions:

This is the analog planimeter and not the digital one. EIE - analog Planimeter is supplied with sliding base pattern. It has a driving mechanism which consists of circular disc roller, Vernier caliper with tracing and fixing arms of suitable range and having fixing and tracing points. The planimeter is supplied with the values of multiplying constant and additive constant. Improved sliding bar pattern for measuring areas direct from drawings. Complete instrument comes in a wooden case with instruction booklet.

## DIGITAL PLANIMETER - KP- 90N/KP-92 N



### Applications:

- Construction and civil engineering
- Forestry area
- Land developing planning
- Ship designing
- Machine designing
- Medical research
- Data analysis in statistics
- Agriculture
- Architecture & Interior Designing

### Technical Specification:

- Function: Computing/Single
- Display: Liquid Crystal, 8 digit Figures
- Symbol: Batt E, Scale, Memo, Hold, cm<sup>2</sup>, m<sup>2</sup>, km<sup>2</sup>, in<sup>2</sup>, ft<sup>2</sup>, acre,
- Converting Function: Unit and Scale value/Unit (in<sup>2</sup>, cm<sup>2</sup>)
- Accumulated Measuring Value: Maximum 10m<sup>2</sup> (scale 1:1)
- Measuring Range: Maximum vertical width 325 mm
- Horizontal Roller Rotating Length: 30 meters
- Power: Built in rechargeable NiCd battery / AC Adapter 100V~240V (Auto Power off provided)
- Operating Hour: Approximately 30 hours
- Accessories: Supplied AC adapter & Plastic case

### **FREEZE THAW CABINET FOR CONCRETE TESTING**



The Rapid Freeze-Thaw Cabinet is used to measure the resistance of concrete to deterioration caused by repeated cycles of freezing and thawing in water. The system is designed to test up to eighteen 3" x 4" x 16" (76 x 102 x 406 mm) concrete specimens simultaneously, with one being a control. Fully automatic operation frees operator to perform other lab duties.

#### **Details:**

- Allows users to establish field control using correlations between concrete strength and durability
- Permits the evaluation of variables in concrete properties and conditioning.
- Useful in the evaluation of the durability of aggregates, as well as the properties of ad mixtures.
- Horizontal stand alone model with mobility on castor wheels
- Fully complies with ASTM C666 Standard
- Fully automatic operation (PROCEDURE A) frees user to perform other lab activities
- For PROCEDURE B, User will have to manually pour the water inside the test container.
- Supplied with 8 different corrosion resistant stainless steel test containers

**Also  
Available**

- ☐ **VERNIER CALIPER – DIGITAL**
- ☐ **ACCELERATED CURING TANK-HEATING +  
COOLING FOR 6 & 12 CUBES.**
- ☐ **COARSE SIEVE SET**
- ☐ **FEELER GAUGE**
- ☐ **STOP WATCH- DIGITAL**
- ☐ **ELECTRONIC WEIGHING BALANCE**



Mktd. By:



**EIE INSTRUMENTS PVT. LTD.**

(An ISO 9001 : 2008 Certified Company)

---

### **Factory Address**

Survey No. 1098, Nr. Mahakali Temple, Opp. Primary School  
Village Kubadthal, Tal: Daskroi, Ahmedabad-382433, India

---

### **Corporate Office**

A-1301, BVR Ek, Opp. Hotel Inder Residency,  
Nr. Gujarat College, Ellisbridge, Ahmedabad-380006, India

---

Please give us a call on 079-66211234, drop us an email at [info@eieinstruments.com](mailto:info@eieinstruments.com), or send your product request on our WhatsApp No: 9227230010, if in case, you want to have third party references for our testing products. We will be glad to assist you with all possible details.