

## DIGITAL PLATE LOAD TEST SET

Code : T063



- The Digital Plate Load Test Set is used to determine the bearing capacity and deformation characteristics of soil layers in situ, essential for evaluating subgrade strength in road constructions, foundations, highways, airports, and other infrastructure projects.
- By applying incremental static loads to a circular steel plate and measuring the corresponding settlements, the system provides critical data for calculating the modulus of subgrade reaction and assessing soil stiffness under field conditions.
- The apparatus includes a hydraulic jack assembly capable of delivering and maintaining the required load, ensuring accurate simulation of field loading conditions.
- A battery-operated digital load indicator offers precise measurement and real-time display of applied loads, enhancing data accuracy and test efficiency.
- Three high-precision dial indicators, each with a range of 30 mm and a resolution of 0.01 mm, are mounted on a rigid datum bar to independently measure plate settlements, ensuring reliable deformation readings unaffected by jack movements.

- The set includes circular steel bearing plates with diameters ranging from 300 mm to 760 mm, all with a thickness of 25 mm, accommodating various test standards and site conditions.
- The modular design allows for easy assembly and disassembly, facilitating transportation and setup in diverse field environments.

## **STANDARDS**

ASTM D1194 • ASTM D1195 • ASTM D1196 • BS 1377-9

## **TECHNICAL SPECIFICATIONS**

### • **Available Capacities:**

- T063H10XD: Capacity 100 kN
- T063H25XD: Capacity 250 kN
- T063H50XD: Capacity 500 kN

### • **Load Measurement:**

- Digital Load Indicator, real-time load display
- Battery-operated
- Unit Selection (kN, N, kgf, lbf)

### • **Settlement Measurement:**

- Dial Indicators: 30 mm range, 0.01 mm resolution (3 units)
- Datum Bar: Rigid, independent of loading column

### • **Bearing Plates:**

- Diameters: 300 mm, 450 mm, 600 mm, 760 mm (See **Available Models** for set configuration)
- Thickness: 25 mm

### • **Hydraulic Jack Assembly:**

- Manual Pump

### **EQUIPPED WITH**

- Hydraulic Jack Assembly
- Touch Screen Load Indicator with Unit Selection
- Datum Bar
- Dial Indicators (3 units)
- Dial Indicator Holders (3 units)

### **AVAILABLE MODELS**

| Code                     | T063H10XD            | T063H25XD            | T063H50XD            |
|--------------------------|----------------------|----------------------|----------------------|
| Capacity                 | 100 kN               | 250 kN               | 500 kN               |
| Digital Load Indicator   | ✓                    | ✓                    | ✓                    |
| Dial Indicator + Holder  | 30 mm / 0.01 mm (x3) | 30 mm / 0.01 mm (x3) | 30 mm / 0.01 mm (x3) |
| Bearing Plate (Ø 300 mm) | ✓                    | X                    | X                    |
| Bearing Plate (Ø 450 mm) | ✓                    | ✓                    | X                    |
| Bearing Plate (Ø 600 mm) | X                    | ✓                    | ✓                    |
| Bearing Plate (Ø 760 mm) | X                    | X                    | ✓                    |

### **ORDERING INFORMATION**

| Item                          | Code      |
|-------------------------------|-----------|
| PLATE LOAD TEST SET - 100 kN  | T063H10XD |
| PLATE LOAD TEST SET - 250 kN  | T063H25XD |
| PLATE LOAD TEST SET - 500 kN  | T063H50XD |
| DATUM BAR for PLATE LOAD TEST | T063P001H |

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| DIAL HOLDER for PLATE LOAD TEST | T063P002H |
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| PLATE - Ø 300 mm | T063P003H |
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| PLATE - Ø 450 mm | T063P004H |
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| PLATE - Ø 600 mm | T063P005H |
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| PLATE - Ø 760 mm | T063P006H |
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| SPARE LOAD INDICATOR for T063 | T063P007H |
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| SPARE PRESSURE SENSOR for T063 | T063P008H |
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| HYDRAULIC JACK and PISTON (100 kN) for T063 | T063P009H |
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| HYDRAULIC JACK and PISTON (250 kN) for T063 | T063P010H |
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| HYDRAULIC JACK and PISTON (500 kN) for T063 | T063P011H |
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