



HD-4602



HD-4604



HD-4139.3F

Humboldt Plate Bearing Tester

ASTM D1195, D1196

The Humboldt Plate Bearing Tester is a field test used for determining the bearing capacity of soil under varying loading conditions. It can also be used to evaluate designs of airport and highway pavements.

This Plate Bearing Tester consists of a hydraulic jack complete with hand pump and rubber; fast-connect hose, large pressure dial gauge; seat plate; (3) precision dial or digital gauges (1" x 0.0004 (25 x 0.01mm); 18' (5.5m) deflection beam complete with mounting hardware for gauges, Plate Set (HD-4605) and case for gauges, pump and jack.

The Plate Bearing Tester is available in three (3) capacities: 100kN, 200kN and 500kN. All have a digital gauge option available.

Individual plate sizes available. Call for more info.

Features:

- Long piston travel to accommodate setup of reaction loading system
- Double-delivery hand pump for fast approach in setup with reaction loading system
- High-precision dial gauges
- Heavy-duty, rigid measuring bridge

Plate Bearing Tester, 100kN HD-4600

Plate Bearing Tester, 200kN HD-4601

Plate Bearing Tester, 500kN HD-4602

Plate Bearing Tester Digital, 100kN HD-4600D

Plate Bearing Tester Digital, 200kN HD-4601D

Plate Bearing Tester Digital, 500kN HD-4602D

Ship wt. 800lbs (362.9kg)

Ball Joint Adaptor

Ball Joint Adaptor for Corp of Engineers Test CRD-C655.

Ball Joint Adaptor HD-4604

Shipping wt. 30 lbs (13.7kg)

Static, Plate Load Tester

DIN 18134; BS1377

The Static Plate Load Test can be utilized in earthworks and foundation engineering, as well as road construction in order to determine load settlement lines and by this to evaluate the deformability and the load capacity of the soil.

When using the static load tester to evaluate a soil layer, the circular load plate is repeatedly loaded and relieved by means of a load device, a hydraulic pump and pneumatic cylinder. This load is applied to the plate in 6 to 8 equal loading steps. Settlement of the plate is measured by the tester consisting of a carrier frame with a sensing arm and dial gauge. As a counterbalance, a heavy-weight vehicle is used.

The indentation of the load plate into the soil, generated with every load step, is indicated via the dial gauge. The settlement of every load step and the corresponding mean normal stress below the load plate appear as test values. Subsequent to the last load step the relief and a second loading similar to the first loading takes place. For the test evaluation these values are shown in a corresponding diagram as load settlement lines.

The modulus of deformation E_v is determined from the load settlement line of the first load (E_{v1}) and the second load (E_{v2}). By comparing the initial deformation from E_{v1} and the subsequent deformation of E_{v2} provides an indication of the compaction attained.

The test results and the load settlement lines can be read with the HD-4139.3F Plate Load tester directly on the display and can be printed out immediately at the site via thermal printer or be reviewed later in the office on a PC.

The HD-4139.3F Plate Load Tester Features:

- Handy measuring instrument with extra large illuminated display, which is easily viewed in all light conditions and a thermal printer within an aluminum case
- Automatic data transfer, Data-Secure, error-free automatic interpretation intuitive menu navigation with a clearly arranged display
- Evaluation, displaying and printout immediately at the site shows E_{v1} , E_{v2} , E_{v1}/E_{v2} and settlement curve
- PC-connection, Software for creation of professional test protocols
- USB interface for easy data transfer, GPS for accurate localization of the measuring point-modular design provides flexibility in use

Static Plate Load Tester

HD-4139.3F

Ship wt. 244lbs (17.4kg)

Printer Paper

Replacement paper for use with Plate Load Tester and LWD.

Printer Paper

HD-4129.5

Shipping wt. 2 lbs (0.9kg)

