The Texam is a pressuremeter used to measure in situ strength and stress-strain properties of soils and very soft rock.

**Description**

The **Texam** pre-boring pressuremeter is a reliable instrument for the evaluation of various ground engineering problems. Its used to run routine in-situ loading tests at various depths.

**The probe**
A cylindrical hollow body fitted with an inflatable sheath.

**The control unit**
A metal case that houses the main cylinder, four quick connectors and the control valve.
A manual actuator (screw jack) to operate the piston.
A digital pressure gauge.

**The tubing**
A high-pressure single conduit fitted with a shut-off quick connect to keep the probe and tubing saturated.

**Key Features**

- Easy to operate and maintain
- Rugged construction
- Controlled rate of deformation or pressure
- Easy cyclic testing
- Conforms ASTM D4719-07
- Safe: no compressed gas necessary
- Optional equipment available for creep testing

**Applications**

- Bearing capacity estimation of shallow and deep foundations
- Settlement estimation of all types of foundations
- Deformation of laterally loaded piles and sheet piles

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**Specifications**

**Control unit**

- **Working pressure**: 10 000 kPa (1500 psi)
- **Pressure accuracy**: 0.05% FS
- **Pressure resolution**: 1 kPa
- **Volumetric resolution**: 0.01 cc
- **Dimensions**
  - L = 40 cm
  - W = 46 cm (including handle)
  - H = 45 cm
- **Metal case weight**: 30 kg
- **Actuator weight**: 28 kg
- **Probe**
  - **Diameter**: 74 mm (N Long) 44 mm (A)
  - **Length**: 72 cm 59 cm
  - **Weight**: 6.4 kg 4.5 kg

**Test Procedure**

The probe is placed at the test depth in a pre-drilled borehole obtained by a method adapted to the soil conditions: wet rotary drilling, augering, Shelby tube pushing, etc. In granular soils below the water table, the probe can be driven directly within a slotted casing. The test is run either with a constant rate of deformation by using a uniform rate of rotation of the actuator, or with equal increments of pressure as for the Menard pressuremeter test.

**Test Results**

An in-situ stress-strain curve is obtained by plotting the injected volume against pressure. The main parameters yielded from the test readings are the Pressuremeter Modulus E_p, Creep Pressure P_f, and the Limit Pressure P_L.

**Ordering Information**

- Please specify:
  - Tubing length (25 m, 33 m, or 50 m)
  - Probe dimension

**Optional Accessories**

- Slotted casing assembly for direct driving of the A-size probe in granular soils below the water table
- Creep test kit for long term testing at constant pressure

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**Typical pressuremeter test results**

![Typical pressuremeter test results graph](Image)