



DILATOMETER / ROCK PRESSUREMETER

The PROBEX borehole dilatometer, developed by RocTest, is used for in-situ testing of rock mass deformability and creep behavior. Designed for use in geotechnical investigations in soft to moderately-hard rock, the dilatometer provides direct measurements of formation stress-strain relationships under controlled pressure conditions.

Data interpretation is based on Lamé's equations, and provides a mean modulus of deformation for the rock mass tested. Elastic Modulus (E) is calculated, and the data can be extrapolated to estimate the plastic response and Ultimate Pressure (p_L).

Raw data is corrected based on daily calibrations performed in a calibration cylinder with known properties. Deployment requires a drill rig over the borehole.

APPLICATIONS:

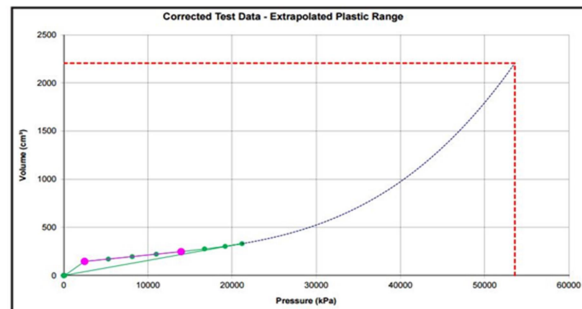
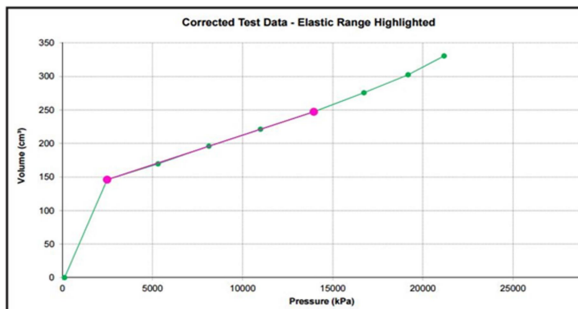
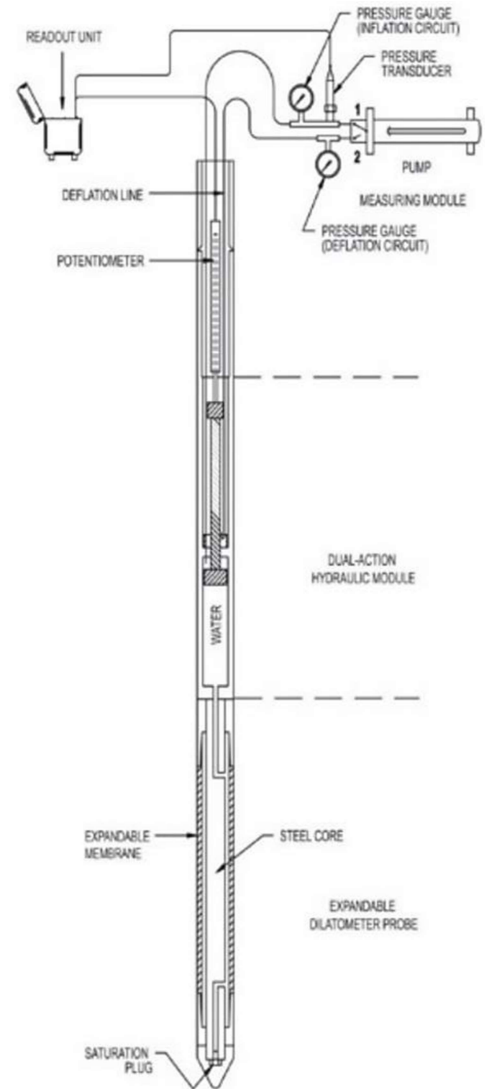
- + Deformation estimates of tunnel linings, concrete dam foundations, and bridge supports
- + Settlement capacity of caissons
- + End bearing capacity of deep foundations
- + P-Y curves for analysis of drilled shafts

PROBE SPECIFICATIONS:

Upper Threads:	BW Casing and NQ Rod
Tool Length:	2.6 m (8.5 ft.)
Tool Weight:	42 kg (92 lb.)
Max Temperature Rating:	-5 – 60°C (23 – 140°F)
Maximum Depth:	91 m (300 ft.)

SENSOR SPECIFICATIONS:

Diameter:	
Minimum Deflated:	73.7 mm (2.9 in.)
Maximum Inflated:	85.5 mm (3.4 in.)
Effective Length:	457 mm (18 in.)
Maximum Pressure:	30,000 kPa (4350 psi)



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