

Dynamic Cone Penetrometer, UMI-581 / UMI-582

DYNAMIC CONE PENETROMETER

As per TRL-UK design, for road pavements

Ref. Standard : ASTM D6951

Introduction

Highway Dynamic Cone Penetrometer is inspired from the original design provided by TRL-UK (Kleyn, Maree & Savage). In this test one hammer is dropped from a fixed height to force penetrate a cone into test surface. The penetration is measured over provided scale.

This test is done for accessing the properties of the structure made from unbonded materials such as earth. Penetration depth may be measured upto a maximum depth of 2 meters (using extension rod). Relations with DCP and CBR can be established so that results are interpreted and compared with CBR specifications for pavements design.

This is a rapid test, takes only few minutes in complete test including assembly of the instruments.

Features

- Trusted, in use since 1982
- As per TRL-UK design
- Simple and Strong construction
- Efficient and Rapid measurement, takes only few minutes in test
- Easy transport, weigh less than 30 kg
- Supplies complete in wooden case

Standard outfit includes:

- Cone 60° angle or as required
- Base and Support Frame
- 8 or 10 kg Hammer and drop guide
- Penetration Measuring Scale
- Set of spanners for assembly
- Wooden Case for easy transportation



Motorized Model



UMI-582
Mechanical Model

Motorised Dynamic Con Penetrometer

This lightweight pavement DCP is useful product having 30 kg drop weight and 20 cm fall and a cone of 10 sq.cm. The drive unit slides along a guide bracket on a robust foot support. The support frame may be dismantled to reduce transportation weight. Guide, motor, support, safety device, extension rod, drive cone etc. all are included in a steel box.