



DYNAMIC PENETRATION TESTING

INTRODUCTION

Dynamic Penetration Testing is a site investigation tool that provides rapid information regarding the relative stiffness and density of superficial deposits.

CAPABILITY

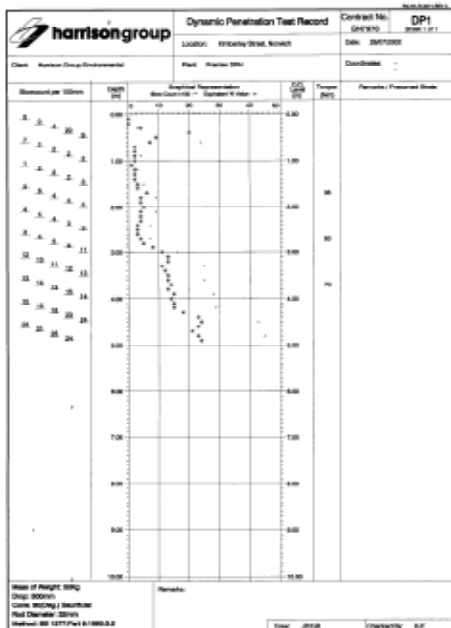
Depending on the nature of sub soils, probing can be carried out to depths of up to 20m below ground level. In suitable conditions, up to 100m of probing can be achieved in one day.

The dynamic probe rig is used to drive interconnecting 1m length steel probe rods into the ground at the required location. A standard disposable tip is attached to the probe rods, which remains in the ground when the rods are removed.

A 50kg hammer falls repeatedly through a standard drop of 500mm. The rods are graduated at 100mm intervals and blow counts are recorded for each of these increments down to the required depth.

SITE SET UP

- Two man crew + van
- Portable, wheel or track mounted percussion hammer
- Interchangeable, graduated probing rods
- Hand operated or hydraulic jack



A profile of blow counts against depth is obtained - the Dynamic Penetration Test Record.

PROS

- Ideal for restricted access - can fit through a standard doorway
- Easily locates and examines the extent of sub surface soft spots and voids
- Can be related to SPT values
- No residual spoil