

PANDA 2

COREHARD

Variable Energy Input Dynamic Cone Penetrometer

Introducing a cost effective means to record accurate compaction and resistance values in unbound materials & soils.

Corehard Limited

4 Viewpoint, Babbage Road,
Stevenage, Hertfordshire SG1 2EQ
T: 01438 225 102 F: 01438 213 721
E: services@corehard.com
W: www.corehard.com

USES

- Street-Works Conformance
- Natural Materials
- Recycled & Modified Materials
- CBR % values throughout depth
- Highway construction
- Quality Assurance
- Layer Identification
- Compaction control
- Material Identification
- Railways
- Tunnel works
- Earth Banks & Dams



BS EN ISO 9001:2000
Registered Company

...hard edged analysis from the top down...

Compaction

- Trenches & excavations using compaction equipment
- Natural and recycled materials verification of compaction
- CBR % values throughout depth of penetration
- Direct GPS input for location purposes
- Embankments and cuttings.
- Roads and Highways.
- Earth dams and dykes.
- Monitoring layer thickness, and compaction homogeneity.
- Layer identification
- Material identification
- 5 minutes per test with results viewable on site

Investigation

- Preliminary investigation for roads (pipe lines, urban redevelopment and rural development)
- Low rise buildings with a depth of influence up to 4 meters (two story houses, pylons etc).
- Temporary structures (cranes, platforms etc)
- Pathology (desiccation, cracks and voids)
- Investigation of sites of restricted or remote access.

The device has the ability to reach 4-6 metres depth in soils with a cone resistance of 20-30 Mpa. The size and weight of the penetrometer allows it to be highly portable and used anywhere by one person or as part of a core sampling program.



About us!

We are an established business and testing laboratory working with clients engaged in works relating to Utilities, Civil Engineering, and Highways sectors.

Where our services are employed we monitor, record, and report to minimum specified client or statutory requirements.

Our current customers include; Local Authorities, Utilities, and Civil Engineering companies who utilise our laboratory testing and consultancy services to ensure best practice is administered consistently.

Please visit our website www.corehard.com for more recent and up to date information, or contact us using the information shown overleaf

THE PRINCIPLE

The test is carried out by driving a cone (2, 4 or 10cm²) on the end of a set of rods using a fixed weight hammer. For each blow of the hammer a microprocessor records the speed of impact of the hammer and hence calculates the amount of energy used. The microprocessor uses the depth of penetration and energy for each blow of the hammer to calculate the dynamic cone resistance (qd) using the Dutch Formula and records and displays the values for qd along with the corresponding depth. Studies have proved the reliability of the results obtained compared with standard in situ tests.

SOFTWARE

A windows compatible program enables measurements recorded by the microprocessor to be analyzed using this software which allows the operative to present in various formats. The software includes an extensive database of soils and materials from which to classify identified materials.

The program will plot reference lines with tolerance for pass and failure, which when compared to the test data, will allow an assessment of the quality of works undertaken. The software can output penetrographs with all client and site information along with a strike index and resistance value for each penetration.

For further info please contact us on 01438 225 102 or visit www.corehard.com