

## Technical Data – Dynamic Probing



We have over 45 years experience using penetrometer testing for characterising the strength of the ground and for the location of: solution features, areas of made ground, soft deposits, tunnels and other underground voids and cavities. The tests are based on BS EN ISO 22476-2 specifications.

Dynamic probing involves driving a cylindrical sacrificial or fixed cone into the ground using a cyclically driven, free falling percussive hammer. The cone is attached to a 1m section steel rod with a nominal diameter of approximately 35mm and graduation markings set at 100mm intervals. Depending upon the standard test required, the drop height and weight can be adjusted. The most common test requested is Dynamic Probe Super Heavy (DPSH), using a 63.5kg hammer free falling 760mm onto the anvil.

Blows per 100mm are recorded and after every 1m section a torque reading is recorded, a further rod is then added and the process is continued until the probe refuses to penetrate the ground or the test reaches the required depth. The results from this method can be correlated directly to a Standard Penetration Test (SPT) 'N' value. The results are plotted on a graph, providing a visual interpretation of the different soil strata encountered.

	<b>Tracked Rig</b>
Test	DPSH-B
Travelling dimensions – length (mm)	2400
width (mm)	900
height (mm)	1600
Operating dimensions – length (mm)	2200
width (mm)	900
height (mm)	2900

*Note: All dimensions are approximate and should be checked prior to mobilisation to site*

For testing in restricted access locations, we operate a highly portable, hand held DPL test assembly which uses a 10 kg weight, with a drop height of 500mm. The equipment requires a minimum headroom of 2.2m and a working space of about 1m x 2m.

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