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## Borehole Inclination Tester ZI 10018

Standards:

Specification:

BIT measures the verticality of a borehole AND of existing piles

### **Borehole:**

BIT uses the auger/bucket itself as the centralizer. Eliminating the need for a heavy-to-move system.

The BIT enables fast and accurate determination of inclination in both dry and wet boreholes.

Large boreholes and diaphragm-walls may be quickly tested several times during drilling to enable real-time corrective action.

### **Existing piles:**

A special centralizer is attached to the BIT sensor and lowered into a standard access tube (No need for an expensive inclinometer tube). The BIT sensor includes a gyro which constantly measures and compensates the rotation of the sensor in the tube.

### **Background**

All piling specifications prescribe the allowable deviation of the pile axis from the vertical.

FHWA rules, for instance, limit the pile inclination to 20 mm/m, or 2%.

The ICE (UK) specifications allow a deviation of not more than 1:75 or 1.33%.

Similarly, these documents also set down the



allowable deviation of raked piles.

In diaphragm and secant walls, the specification is typically even more restrictive.