

# Foundation systems & products

**A** lot goes into foundations. From design and analysis, to construction and repair, foundations are the base upon which all structures are built. These components need to be reliable and predictable and many products, from software to grout, are developed to ensure success for these critical components.

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## Deep pile evaluation instrument from Pile Dynamics

Pile Dynamics, Inc., manufactures Length Inductive Test Equipment (LITE) that evaluates the length of steel piles (H-piles, pipe piles, cased drilled shafts, steel sheet piles) using the inductive field method. When length determination is key for foundation reuse or when unexpected settlement or scour raise concerns about bearing capacity, foundation testing engineers should consider using LITE for length determination of steel piles. According to the company, operation



is simple and data interpretation straightforward. Users lower the inductive sensor of the LITE into a PVC-lined hole drilled within 18 inches of the pile to be tested and observe the resulting Voltage reading. As long as the inductive device senses the proximity of metal or other conductive material, the LITE will show a high voltage. If there is no metal in the neighborhood, then the voltage will drop to a low value.

Pile Dynamics Inc., [www.pile.com](http://www.pile.com);

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([www.pile.com](http://www.pile.com)) provides testing systems for all types of deep foundations: pile driving analyzer for dynamic load testing on drilled or driven piles, CHAMP for cross-hole sonic logging, PIT for pulse echo/pile integrity testing, and PIR for automated monitoring of augered cast-in-place/CFA piles.



**Pile Dynamics, Inc.**

*Quality Assurance  
for Deep Foundations*

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