



Dynamic Pile Testing

Deep foundation systems comprised of drilled shafts or driven piles typically require load testing to verify the ultimate bearing capacity. Traditional static load tests are time consuming and expensive, limiting the number of piles or shafts that can be tested on a project.

Dynamic Pile Testing (DPT) was developed in response to the needs of the market for an economical and comprehensive method to analyze driven piles and drilled shafts.

DPT Provides

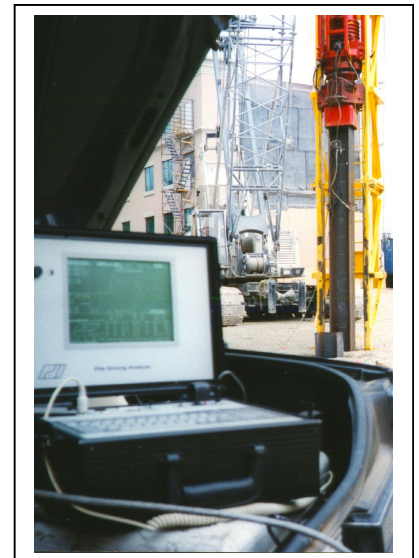
- ♦ **Timely decisions** - Dynamic pile testing can be performed on several piles in one day. Bearing capacity estimates can be provided at the time of testing, minimizing delays and reducing costs, which aids in timely project completion. Delays and the expense of static testing are leading reasons why dynamic testing is often a replacement for or supplement to static testing.
- ♦ **Hammer efficiencies** - Transferred hammer energy is measured during driving to confirm adequate and consistent hammer performance for improved quality control.
- ♦ **Driving stresses** - During driving, compression and tension stress are measured in the pile to determine if driving stresses are below the specified limits and if driving adjustments are warranted.
- ♦ **Pile/shaft integrity** - Detects the extent and location of pile damage and identifies potential problems related to the pile hammer or soil conditions.

Why DPT?

DPT measures force and velocity near the top of a pile or drilled shaft and is a reliable tool in evaluating these deep foundation components.

The measurements allow for the evaluation of pile driving stresses, pile or shaft integrity, hammer performance, and bearing capacity.

DPT is performed by attaching re-usable, high quality sensors to the pile wall and measuring the force and velocity at the top of the pile as the pile is impacted with a driving hammer. The pile response to dynamic loading is analyzed to provide owners, foundation designers, and contractors with pile capacity and other valuable information that is not obtained from static load tests.



For more information, contact:

Albany
518-383-9144

Elmira
607-737-0700

Rochester
585-427-9020

Watertown
315-786-7887

Binghamton
607-773-1812

Plattsburgh
518-563-5878

Syracuse
315-699-5281

Canton
315-386-4578

Poughkeepsie
845-691-6098

Utica
315-735-3309

Towanda, PA
607-737-0700

Web: www.AtlanticTesting.com
E-Mail: info@AtlanticTesting.com

Think Quality