



Pile load tests are generally performed on test piles ("loaddeformation test") or works piles ("proof test") to determine the performance and evaluate the capacities of foundations.

PILE LOAD TESTS



I&C Italia can provide vertical or horizontal loading tests, compression and tension load tests for different type of foundations:

- large diameter piles
- micropiles
- instrumented piles



Our services are:

- ⇒ piles instrumentation (supply and installation of vibrating wire strain gauges, tell tales, borehole rod extensometers, pressure cells...)
- ⇒ technical assistance for reaction system installation
- ⇒ installation of measuring apparatus and load application system
- \Rightarrow data acquisition and report preparation



Displacement transducers







Data logger

Multichannel datalogger, 15 bit

Hydraulic cylinders F.P.T

Capacity up to 1100 ton

Stroke 250 mm

Hydraulic pump

Manual/Electric

Max. pressure 700 MPa

Pressure transducers

Range 0-600 bar

Accuracy ± 0.5% F.S.

Electrical displacement transducers

Linear potentiometer type

Range 0-100 mm

Accuracy ± 0.3% F.S.

Dial gauges

Range 0-50 mm

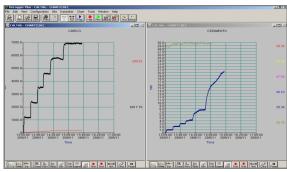
Accuracy ± 0.2% F.S.

DATA PROCESSING

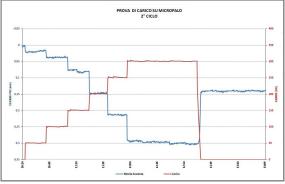
Data can be simultaneously displayed during the test: load and individual displacement in real time, average settlement, etc. Afterwards a technical report of results including data tables and graphs is produced.



Data acquisition system



Real-time graphs



Applied load and settlement versus time

Ingegneria & Controlli Italia S.r.l.

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