

TIG FOCUS TECHNOLOGY

Embedded Data Collector

Wireless Pile Monitoring to Improve
the Quality of Driven Foundations

With embedded top and tip gauges—and wireless communication in real time to a laptop onsite—operators can achieve a more accurate assessment of side friction and tip components when driving prestressed concrete piles.

Why EDC?

Why now?

As a pile monitoring system, EDC gives both owner and contractor new options for the design, construction and quality control of prestressed concrete piles. EDC gauges can detect signs of potential pile tip damage significantly earlier than top-gauge-only systems, which can increase the quality of the driven foundation.

First recognized by TIG in 2007, recent advances in EDC technology speed the delivery of critical information in the field, promoting a responsive process. The system tracks the change in strain/stress within the pile during the driving process, alerting the operator to control the hammer energy or stop the process to prevent further damage.

Embedding top and tip devices also eliminates the time and risk of manual placement of gauges in the midst of a pile driving operation.

EDC offers the capacity to test a large number of piles in a labor and time efficient manner and requires less expert time in the field. Future testing throughout the life cycle of the pile may also be possible. In short, the potential for improvements in time, cost, installed pile quality and worker safety is substantial.

EDC works because it was developed, tested and successfully adopted by your peers. The AASHTO Technology Implementation Group assembled these innovators on a team that is standing by now to help you deliver the benefits of EDC to your colleagues and customers.

Email, call or scan for more information today!

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