

## Testing equipment from EPC



*The Pile Integrity Tester (PIT).*



*The Pile Driving Analyzer (PDA)  
Model PAL-PDI.*



*Digital Concrete Hammer from Proceq.*

Earth Products China Limited (EPC), established in Hong Kong in 1987, is one of the largest civil engineering, and construction instrument and equipment suppliers in Hong Kong, Macau and China. It has seven branches in China in Beijing, Guangzhou, Shanghai, Nanjing, Chengdu, Xian and Shenyang.

EPC is an authorised sole agent of over 55 international manufacturers dealing with piling testing instruments, NDT testing instruments, geotechnical instruments, laboratory instruments, highway testing equipment, bridges testing, site investigation equipment, geophysical instruments, electronic measurement and environmental monitoring equipment.

Among the several lightweight and portable products that EPC offers, three of them are Pile Dynamics Inc's Pile Integrity Tester (PIT) and Pile Driving Analyzer (PDA) Model PAL-PDI, and Proceq's Digital Concrete Hammer.

The PIT is designed to detect the quality of the drive pile and bored pile, as well as to evaluate the degree and location of the pile damage. It does this by performing low strain tests using a small impact hammer, a highly sensitive accelerometer, the special purpose PIT Signal Conditioning Center, the PIT Processor and an output device similar to a plotter.

The data collection with high resolution can detect very weak reflections. The built-in battery can last for eight hours and the touch screen has a high-resolution LCD display with a user-friendly menu.

### *PDA to detect quality of pile*

The Pile Driving Analyser, Model PAL-PDI from Pile Dynamics Inc. is designed to evaluate the capacity of drive pile and bored pile, detect the quality of the pile, inspect the compress and tension stress of a driven pile, and to analyse the performance of the drive hammer.

The instrument comprises high quality transducers that require minimal pile preparation. The transducers can be quickly attached to any pile type and the sensors are reusable.

The PAL can be used within minutes and the smart touch screen is easy to use and provides answers after each blow to aid decision-making during pile installation. Data collected is stored automatically up to 3,500 blow signals via a PCMCIA card and can be easily retrieved for further analysis. In addition, it can be easily transferred to a PC for permanent storage and for analysis by CAPWAP for a more detailed soil model and simulated static load test curve.

The built-in battery can last for eight hours.

### *Proceq's Digital Concrete Hammer*

The electronic concrete test hammer measures the strength of concrete in the field and data can be stored or transferred to a PC. It has an impact energy of 2.207 Nm and a measuring range of 10 to 70 Mpa. The hammer has a measuring accuracy of +/- 0.2 R and a repetition of +/- 0.5 R.

The hammer features digital display rebound values and strengths values, and delete maximum and minimum values automatically.

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