

Professional Pile Testing Equipment and Geotechnical Monitoring Systems



VIBRA-series - Vibration Monitoring

With a Profound VIBRA system, vibrations that are caused by traffic, pile driving, demolition work or blasting can be monitored continually and accurately. By recording vibrations you can assess the risk of damage to buildings and sensitive equipment as well as the nuisance to people in an objective manner in accordance with the applicable guidelines such as DIN 4150-2 and -3, SS 460 48 61 and SS 252 11, blasting standards SS 460 48 66 and AS 2187.2 and DIN 45669-1.



SIT-series - Sonic Integrity Testing

Sonic Integrity Testing of piles is a widely used method for testing the quality of concrete piles in a non-destructive way before they are incorporated in the final foundation plan. The SIT-series has been optimised for use in the field as well as for advanced interpretation and efficient management of the measurement data in the office.



The WOODPECKER - Wood Integrity Testing

The WOODPECKER measures the integrity of wood, specified in the number of millimeters that the striker pin has invaded the wood. This integrity gives an indication of the density, quality and load bearing capacity of the examined wood.



PDA/DLT-system - Bearing Capacity Testing and Pile Driving Analysis

Dynamic Load Testing (DLT) is a frequently used worldwide technique to evaluate the bearing capacity of piles. The Profound PDA/DLT-system is used for both DLT and for Pile Driving Analysis (PDA) as a powerful tool to control the pile driving process and reduce risks involved.



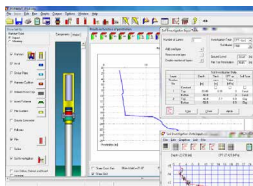
IS-system - Intelligent Sensors for Precision Monitoring

The Intelligent Sensor-system is an effective tool for precision monitoring in the geotechnical field. Real-time measuring data online or on your PC enable you to monitor your project remotely. Other advantages are the fast, simple installation, digital administration and it's easy to frequently read-out many sensors such as liquid level sensors, BAT-sensors, inclinometers, potmeters. For over 20 years our unique and reliable system has been successfully used in a great number of monitoring projects worldwide.



BAT-system - Groundwater Monitoring System

The patented BAT - Groundwater Monitoring System represents an innovative and proven technology for groundwater monitoring and testing, especially in less permeable soils. For over 25 years the BAT-system has been successfully used in a great number of groundwater monitoring projects worldwide. BAT AB and Profound have successfully created a unique and reliable system.



TNOWAVE - Simulation Tool to predict Pile Behaviour

TNOWAVE represents a group of wave equation application programs and is a powerful simulation tool to predict pile behaviour. The TNOWAVE applications are suitable for simulating pile-soil interaction under dynamic conditions. TNOWAVE has the following application modules:

- PDPWAVE for impact hammer and vibratory hammer driveability studies
- SITWAVE to determine local pile defects from sonic integrity testing signals by signal matching
- DLTWAVE to determine pile bearing capacity from a dynamic load test by signal matching

FOR FURTHER INFORMATION

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