



SONICALIPER™ REAL-TIME EXCAVATION INSPECTION

Remove the uncertainty of drilled shaft excavation with SoniCaliper excavation inspection. Using sonar technology, it provides a full 360-degree, three dimensional measurement of shaft excavations for a profile of shape, alignment and verticality. With detailed immediate results, engineers, designers and contractors know that shafts have been constructed according to specification and meet quality standards.

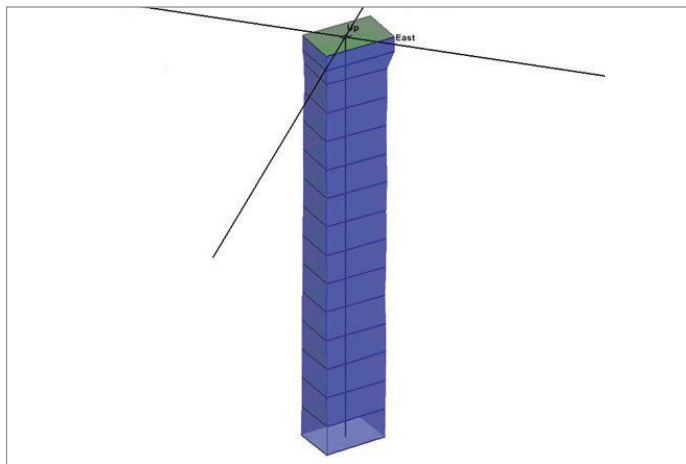
The SoniCaliper™ is a cost-effective quality control and quality assurance tool for deep foundation excavations such as drilled shafts, slurry walls (barrettes) and secant walls. It measures the excavation side wall and creates a virtual excavation image revealing the excavation's true shape. Only SoniCaliper gives the excavation shape, volume and verticality in an hour or less. Effective in water, polymers and mineral slurries, sonar caliper provides outstanding results in real-time display. Using proprietary software, it creates "as-constructed" images and calculations immediately after the excavation is profiled.

The quality advantage from SoniCaliper information allows pro-active quality management. Anomalous and non-spec conditions may be evaluated for impacts to shaft quality prior to the reinforcing cage insertion and concrete placement:

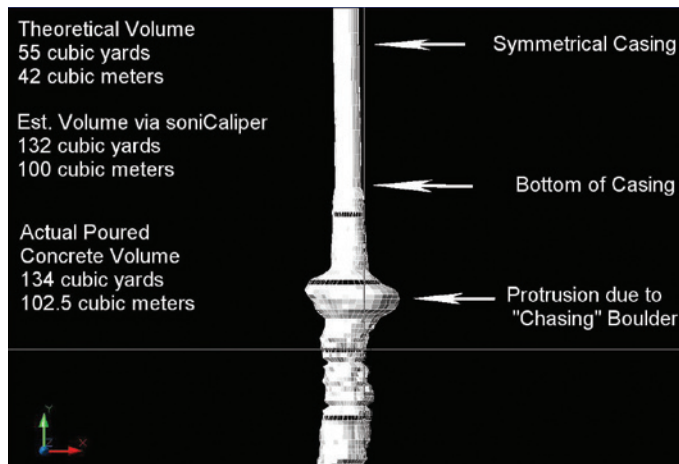
- Defined volume allows informed concrete supply and placement control
- Alignment & verticality information allows control of reinforcement cage placement
- Signal return inference of slurry column particulate presence assists slurry cleaning control



The SoniCaliper equipment in use



The SoniCaliper can determine shaft dimensions and creates "as-constructed" images immediately after the excavation has been profiled

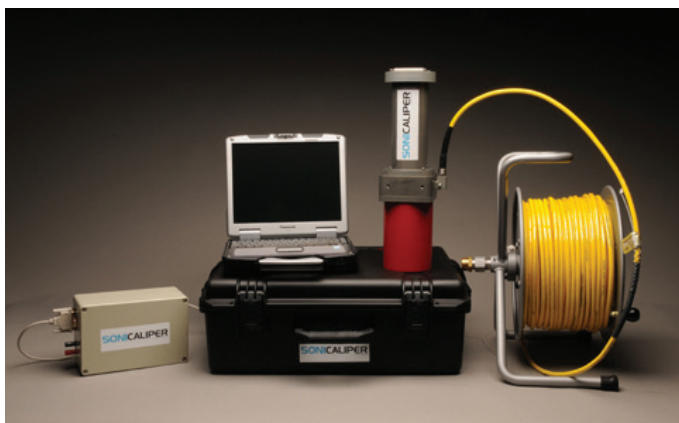


CAD generated images illustrate the anomalies and the resulting volume increases

This timely job site information gives the engineer, designer and contractor additional confidence for the manufacture of a quality shaft as specified.

Specifications

Weight:	14 lbs (6.4 kg)
Height:	18 inches (457 mm)
Width:	6.5 inches (165 mm)
Operating Depth:	Typical operating depths up to 100 meters (capable of operating at greater depths if necessary)
Operating Environment:	Wet environment: Bentonite, Polymer or Natural Slurry
Laptop:	Panasonic ToughBook®
Power Requirements:	110/120/230/240 VAC
Accuracy:	¼ inch (6 mm)



The SoniCaliper equipment

