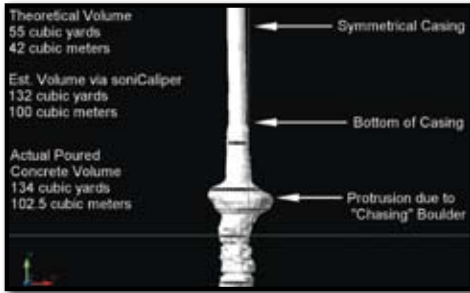


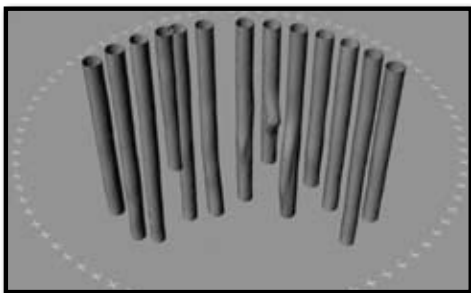


The **SoniCaliper**® is rapidly becoming a specified quality control and quality assurance procedure for deep foundation excavations: specifically drilled shafts, slurry walls (barrettes) and secant walls. The sonar caliper (**SoniCaliper**) has the ability to virtually “see” shaft shapes as constructed in water, polymers and other mineral slurries, giving the engineer, designer and contractor additional confidence that the end product is manufactured according to specification. The **SoniCaliper** can determine diameter, verticality, calculate volume and create images of the shaft or excavation. Using revolutionary software the **SoniCaliper** creates “as-constructed” images and calculations immediately after the shaft has been profiled.

Utilizing sonar technology, our unique product provides a full 360 degree profile of the shaft, allowing our engineers to generate a complete three-dimensional model of the shaft walls. Tested in most standard drilling fluids, sonar calipering has provided outstanding results along with real-time display of the results. The excavation wall can be profiled in most conditions, wet or dry. Sonar calipering is a fast, cost-effective method for checking hole characteristics prior to placing concrete.



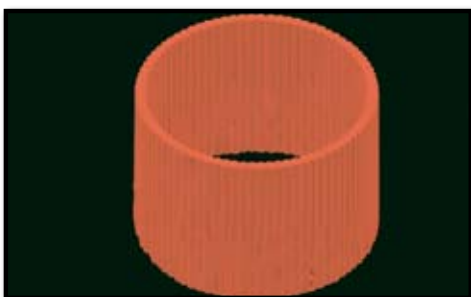
Graphic 1 - This CAD generated image illustrates the anomalies and the resulting volume increase of approximately 240%.



Graphic 2 (above) is representative of the secant wall project pictured below.



Picture 1 - The anomaly shown here was not remedied prior to concrete placement to assure verticality. All other piles on this project were constructed to within 0.1% of verticality.



Graphic 3 - Complete CAD renderings of the foundation system are now possible. These can be added to BIM databases.

## Captures 360° Images in Wet or Dry Excavations:

- Drilled Shafts/Caissons
- Slurry Panels/Barrettes
- Cutoff Walls
- Secant Walls

## Operates in Water, Polymer and Bentonite Environments

### Determines Excavation:

- Diameter
- Volume
- Verticality
- Shape of excavation

## Fast, Accurate and Rugged

### Limitations

- Will not visualize through grout

## 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 m (although capable of operating at deeper depths if necessary)	
Operating Environment:	Wet or Dry Excavations. Wet environment includes – Bentonite, Polymer or Natural Slurry	
Laptop:	Panasonic ToughBook®	
Power Requirements:	110/120/230/240 VAC	
Accuracy:	¼ inches (6 mm)	

