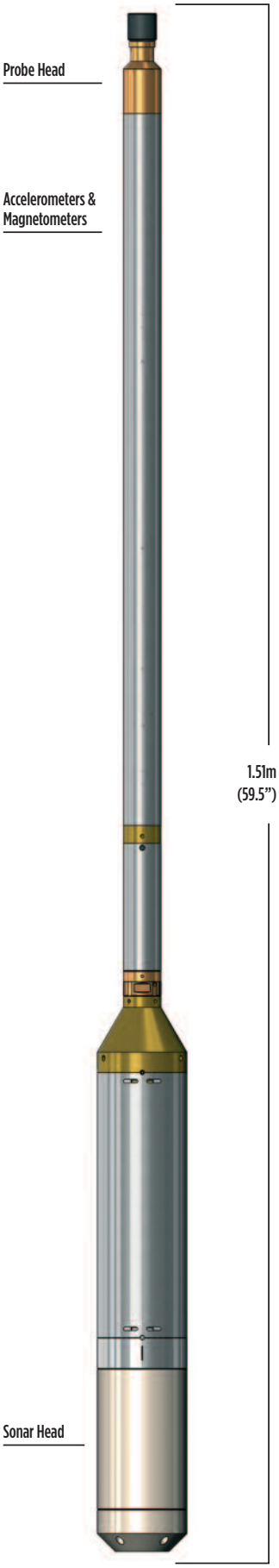
Sonar Caliper



Sonar Caliper Probe

The Sonar Caliper Probe has been developed to provide a scaled and orientated cross-section of large bores, shafts, caverns and trench walls; combining accurate diameter measurement with a fully orientated 360° view of its surroundings.

700kHz and 200kHz models are available to suit varying in-situ fluid conditions.

Principle of Measurement:

Sonar operates by emitting a pulse of sound that is reflected by a solid object; timing the delay between emission and the arrival of the reflected sound wave back at the probe allows for a calculation of distance. The Sonar Caliper Probe makes 400 individual radius measurements in a 360° arc around the probe and then orientates them to magnetic north.

SPECIFICATION:

Features

- Real time large diameter measurement
- Layout orientation/mapping

Measurements

- Spatial diameter
- Orientation
- Spatial volume – derived value

Applications

- Large diameter boreholes (> 1500mm)
- Trench walls
- Shafts, caverns and voids

Operating Conditions

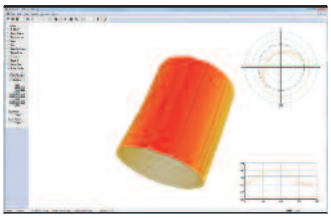
Borehole type:	Fluid filled
Centralisation:	Vertical borehole and central suspension point are advisable
Recommended Logging Speed:	Stationary at discreet points

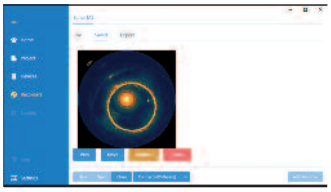
Specifications

Max Diameter:	700kHz - 75mm 200kHz - 100mm
Length:	1.51m
Weight:	16kg
Temperature:	70°C
Pressure:	10MPa
Range:	700kHz - 50m in clear water and brines 200kHz - TBA

Part Numbers

I002193	Sonar Caliper Probe





Examples of logging data

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