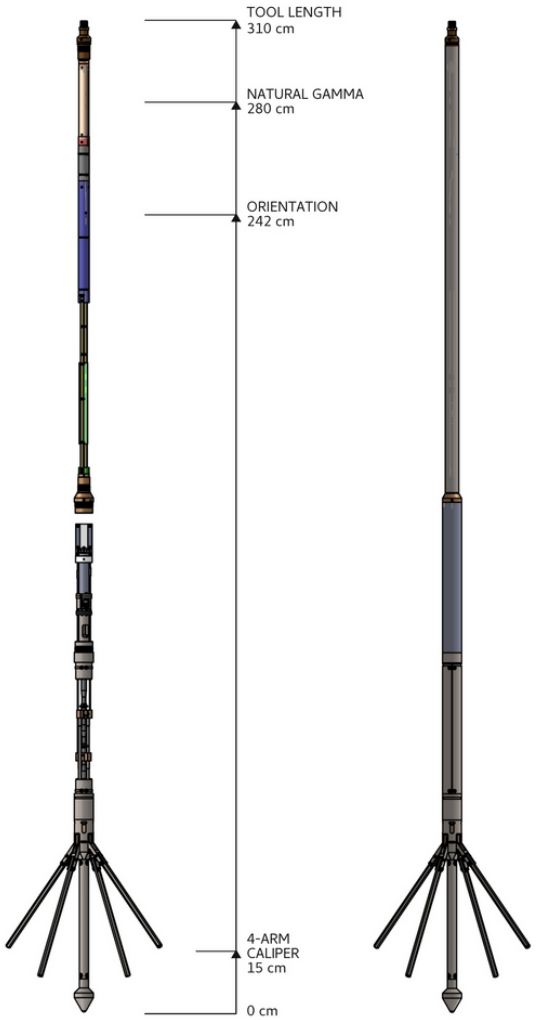
4AC60

Four-arm caliper probe



The **4AC60** borehole geometry probe incorporates two pairs of caliper arms giving independent, perpendicular X-Y diameter measurements, while a magnetometer/accelerometer orientation system provides the borehole azimuth, inclination and X-Y arm directions.

In a non-circular borehole, because of differing spring tensions in the two pairs of arms, the tool will rotate in the borehole until the X-Y directions coincide with the maximum and minimum diameter axes.

Where a borehole becomes ovalised or develops breakout-type features, it can provide information on stress magnitudes and directions within the geological formations.

As an option, the probe can be supplied with a natural gamma detector to provide additional lithological information or for horizon correlation purposes.

Specifications

✓ Diameter:	60 mm
✓ Length:	3100 mm
✓ Weight:	18 kg
✓ Max. operating temperature:	70°C
✓ Max. operating pressure:	200 bar
✓ Power supply:	70 to 100 Vdc

Data / sensor parameters

✓ Diameter measuring range:	60 to 450 mm
✓ Diameter resolution:	0.1 mm
✓ Orientation sensor:	Triple magnetometers / accelerometers
✓ Measurement range:	full 360° inclination / azimuth
✓ Orientation precision:	± 0.1°inclination, ± 0.5°azimuth

Accessories / options

✓ Natural gamma detector:	ø25x50 mm NaI(Tl) crystal
✓ Non-magnetic centralisers	
✓ Calibration jig	

Borehole conditions

✓ Dry or fluid-filled borehole	
✓ Open hole or PVC casing:	if azimuth required
✓ Steel casing:	if azimuth not required

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