Acoustic borehole scanner tools generate an image of the borehole wall by transmitting ultrasound pulses from a rotating sensor and recording the amplitude and travel time of the signals reflected at the interface between mud and formation (borehole wall).

In open hole, the purpose of the acoustic borehole imaging tool is to provide detailed, oriented caliper and structural information on the basis of high resolution, ultrasonic travel time and amplitude images. The travel time is used to determine exceptionally accurate borehole diameter data, which makes the tool ideal for borehole deformation description (stress field analysis). Travel time is also used for quality control of the amplitude measurement. The amplitude of the reflection from the borehole wall is representative of the acoustic (elastic) properties of the surrounding rock therefore, the tool is ideal for fracture detection and geotechnical rock classification. In cased hole, the tool is used for casing inspection.

Open hole applications are:
- fracture detection and evaluation
- detection of thin beds
- determination of bedding dip
- petrophysical characterization
- breakout analysis
- monitoring of earth stress field
- high resolution caliper measurements

Cased hole applications are:
- casing inspection
- corrosion detection
- detection of internal damage or deformation
- casing thickness
### ABI40-GR

**Technical specifications**

- **Diameter:** 1.234 mm
- **Weight:** 3.5 g
- **Max pressure:** 1,400 bar
- **Max temp:** 125°C
- **Weight section:** 0.08 mm (0.003")
- **Natural gamma sensor:** 3 mm thickness (2.5" free)

#### Options

- **Natural gamma sensor:** QL40-GR
- **Coordinates:** slip over 2.5"-line

### QL40-ABI

**Technical specifications**

- **Diameter:** 1.234 mm
- **Weight:** 3.5 g
- **Max pressure:** 1,400 bar
- **Max temp:** 125°C
- **Weight section:** 0.08 mm (0.003")
- **Natural gamma sensor:** 3 mm thickness (2.5" free)

#### Options

- **Natural gamma sensor:** QL40-GR
- **Coordinates:** slip over 2.5"-line

### QL85ABI

**Technical specifications**

- **Diameter:** 1.234 mm
- **Weight:** 3.5 g
- **Max pressure:** 1,400 bar
- **Max temp:** 125°C
- **Weight section:** 0.08 mm (0.003")
- **Natural gamma sensor:** 3 mm thickness (2.5" free)

#### Options

- **Natural gamma sensor:** QL40-GR
- **Coordinates:** slip over 2.5"-line