

BQ–Orientation Shuttle

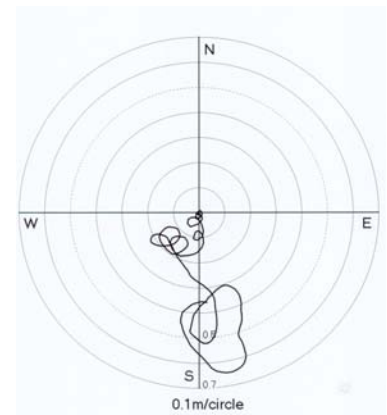
DMT logging tool

The BQ-Orientation Shuttle, suitable for BQ rods, records the xyz-components, strength and dip of the local magnetic field of the tool axis. Inclination data will give information about the deviation of the borehole. Magnetic data from the borehole can help to define lithology, structure and mineralogy. This tool contributes to locating magnetic ore bodies that may have been intersected in the borehole.

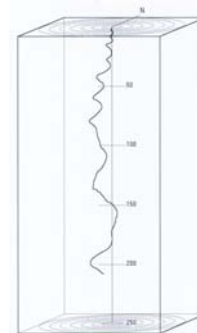
Being intrinsically safe it can be operated in explosion hazardous areas like coal mines.

Advantages of the BQ-Orientation Shuttle

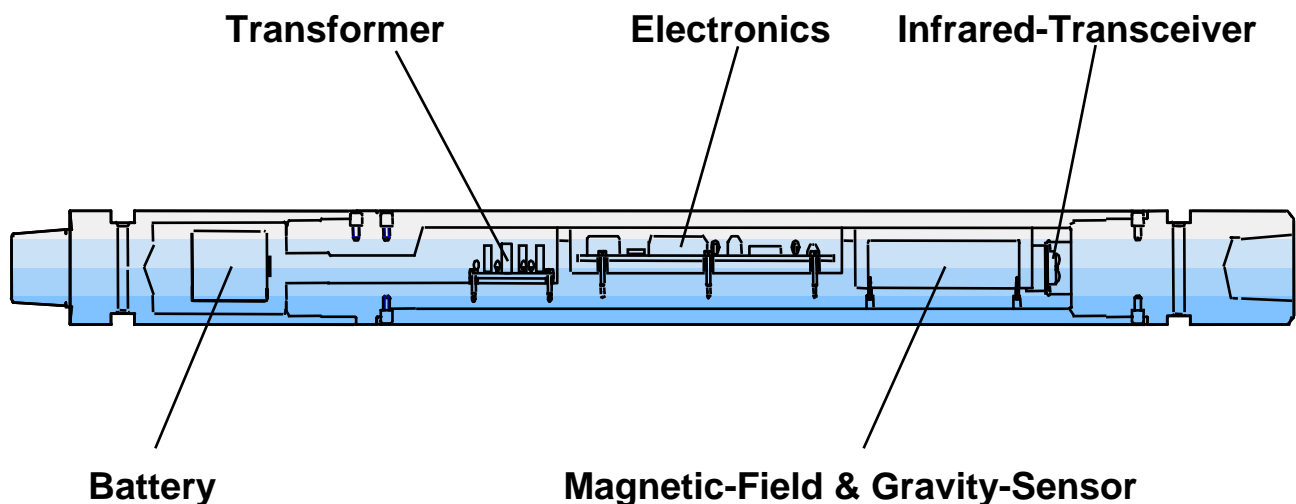
- Small diameter
- No film to process or read
- No cable in the borehole
- Runs in inner core barrel or on wire
- Can be run in every direction
- High accuracy
- Full magnetic and inclination profile



Bulls eye



3D Display



- The accuracy of the accelerometers is in the range of $\pm 0.1^\circ$
- The accuracy of the magnetometers is in the range of $\pm 0.9^\circ$
- Measurements can be taken at intervals of 1 - 255 seconds
- The sensors protrude the bit and are mounted by distance rods at a distance of approx. 5m from the drill bit to eliminate any magnetic influence from the drill rods
- The BQ-Orientation Shuttle can be combined with
 - NQ-Gamma Shuttle

Technical Data

Tool length	1060 mm
Tool diameter	45 mm
Weight	7.8 kg
Maximum depth	2000 m
Maximum pressure	200 bar
Maximum temperature	70° Celcius
Working time	12 hours
Measurement interval	1 – 255 s
Minimum borehole diameter	50 mm
Core barrel size	BQ
Sensors	3 accelerometers
	3 magnetometers
Parameters logged	Direction
	Inclination
	Magnetization

Subject to change

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