

45 mm-Directional-Gamma Shuttle

DMT downhole tool

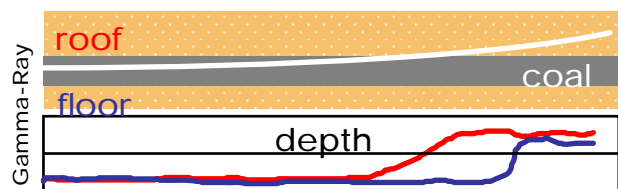
The Directional-Gamma Shuttle is suitable for Auger drill rods. To ensure that the sensors are always aligned with the z-component and to be able to detect floor and roof of the seam it is fitted with

- 3 magnetometers
- 3 inclinometers
- 2 gamma crystals shielded with tungsten
- a swinging weight to create centre of gravity

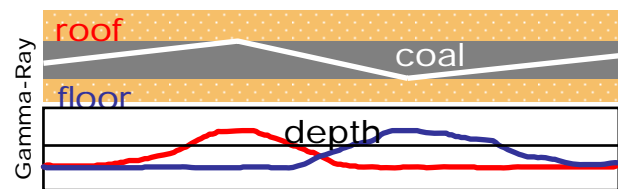
The Directional-Gamma Shuttle can provide information about the position of the borehole within the seam; whether the borehole is in, below or above the seam or whether the borehole has penetrated an unknown fault system.

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

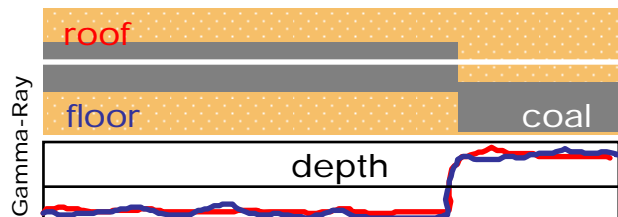
Run off borehole



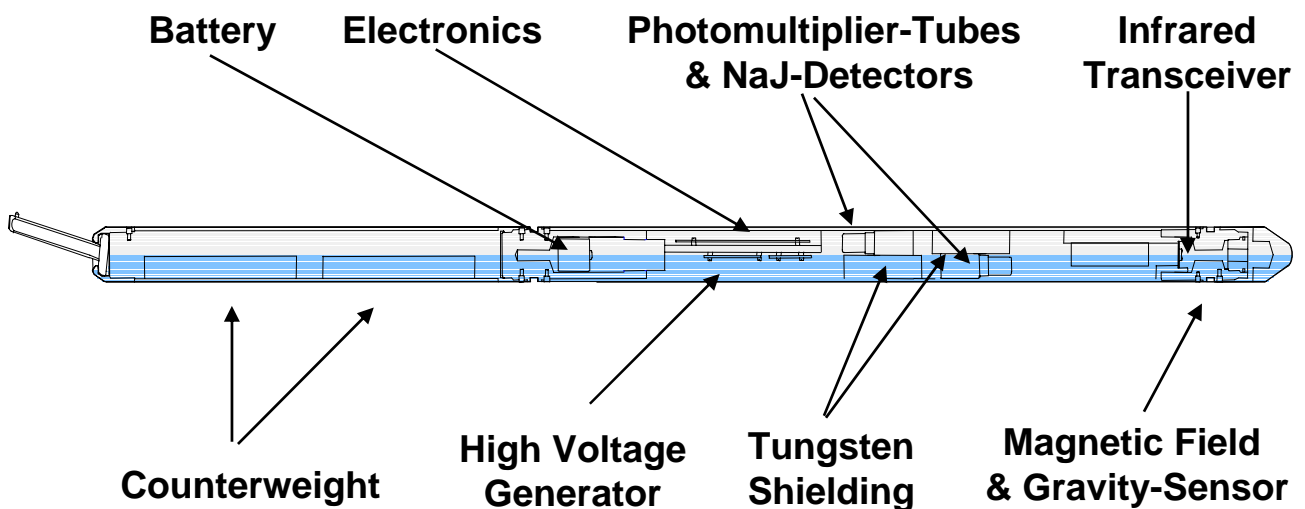
Seam guided borehole



Downthrow fault



Typical Gamma Ray curves from the 45 mm-Directional-Gamma Shuttle



Technical Data

Tool length	1800 mm
Tool diameter	45 mm
Weight	14 kg
Maximum depth	1000 m
Maximum pressure	100 bar
Maximum temperature	70° Celcius
Working time	12 hours
Measurement interval	During rod break
Minimum borehole diameter	50 mm
Core barrel size	NQ
Sensors	2 Gamma ray crystals 3 magnetometers
Parameters logged	Direction Inclination Gamma ray

Subject to change

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