



TECHNICAL SHEET

TRAJECTOMETRY	GYRO MEMS	GYR
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Generalities

Principle
The tool is built around several digital micro-gyros, which consists of a silicon sensor chip and an integrated circuit assembled in a ceramic (non-magnetic) package. It provides directional data (azimuth and dip) at any interval from inside all types of drill rods. It can also be used in open hole applications providing azimuth data in magnetically disturbed zones.

Result
Trajectory of the borehole, calculation of the deviation and offset at any depth.

Interest
Accurate positioning of the borehole, compliance of the borehole to the drilling specifications.

Option
Magnetometer for the magnetic azimuth measurement and borehole temperature.

Constraints / borehole

filling up	: <input checked="" type="checkbox"/> water	<input checked="" type="checkbox"/> mud	<input checked="" type="checkbox"/> dry
casing	: <input checked="" type="checkbox"/> PVC	<input checked="" type="checkbox"/> steel	<input checked="" type="checkbox"/> open
borehole	: <input checked="" type="checkbox"/> cored	<input checked="" type="checkbox"/> destructive	

max. depth	: 3500 m
effective diam.	: 45 mm - 400 mm
temperature	: -30 °C to 85 °C
max. pressure	: 350 bars

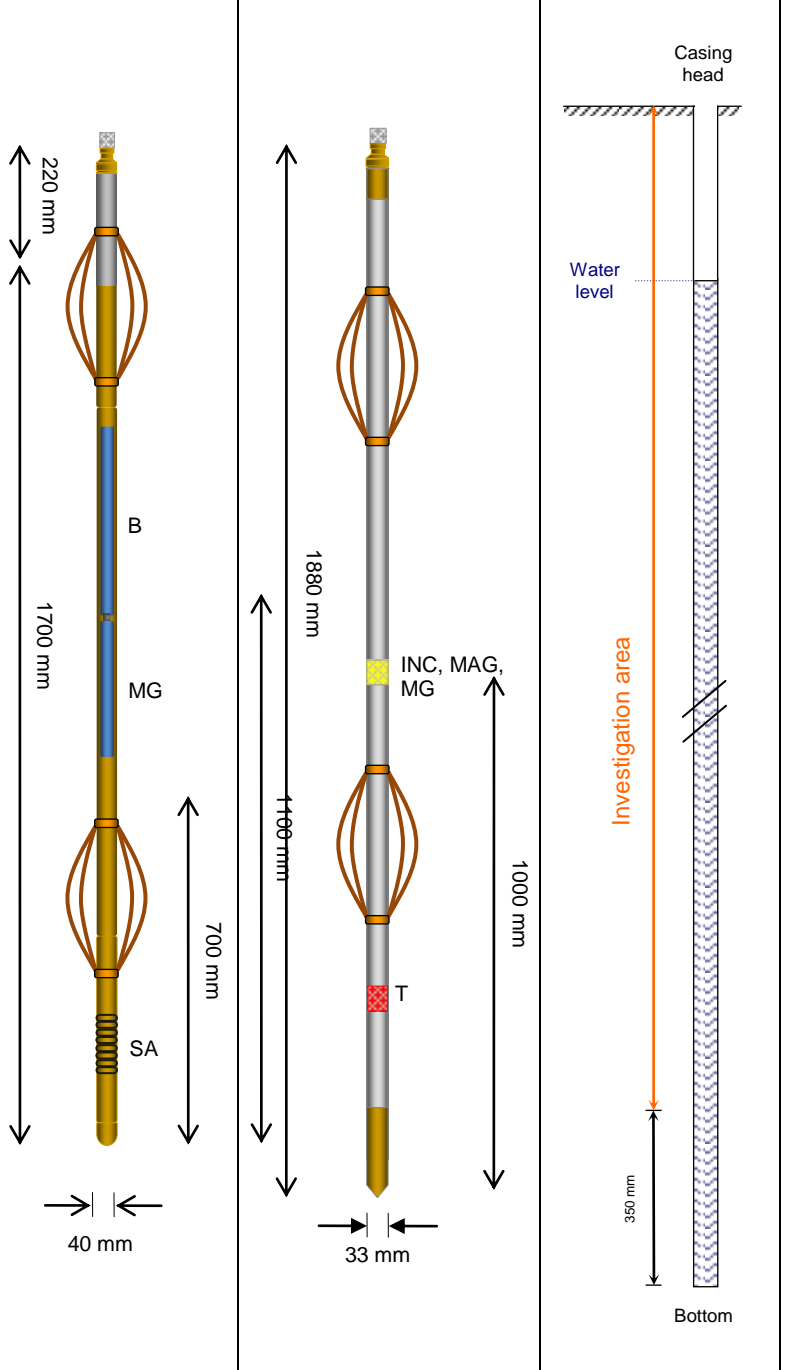
Technical specifications

Dimensions

- length : 1880 ; 1920mm
- diameter : 33 mm ; 40 mm
- weight : ± 9 kg

Elements

- 3 micro-gyros : MG
- 1 magnetometer : MAG (optional)
- 1 battery : B
- 1 shock absorber : SA
- 1 temp. sensor : T (optional)



Records / Measures

Records

- Tool : centered off-centered
- Measure : down up
- Rec. speed : 1 shot/10m
depends on the spatial sampling

Measures

- Azimuth accuracy : ± 1.0°
Depends on the azimuth accuracy of the reference point.
- Tilt accuracy : ± 0.2°

Example

