



geotomographie

manufacturer of seismic borehole equipment



BGK5 | Borehole Geophone

The borehole geophone BGK5 is used to receive P- and S-waves in dry or water filled boreholes. The borehole geophone BGK5 consists of four horizontal sensors, separated by 45° intervals, and one vertical sensor. The geophone is coupled to the borehole wall by a pneumatic clamping system (inflatable bladder). Air is supplied to the BGK5 through an electro-pneumatic hybrid cable with a Kevlar tension string. The cable is terminated by a connector to the seismograph.



Borehole geophone BGK5 with cable drum and pneumatic clamping mechanism using an inflatable bladder.

Technical Details

- Natural sensor frequency:** 10 Hz (others on request)
- Sensor arrangement:** 4 horizontal (45°)/1 vertical
- Operational depth:** Up to 200 m
- Receiver length:** 600 mm
- Receiver weight:** 2.8 kg
- Cable weight per metre:** 145 g
- Cable strength:** 2150 N
- Borehole diameter:** 75 mm (or larger if spacers are used)
- Clamping system:** Inflatable bladder
- Depth indicator:** Cable marking every 2 m
- Connector:** To any seismograph
- Storage:** On drum

Data Example

