



tomography



crosshole



downhole



surface seismic



geotomographie

manufacturer of seismic borehole equipment



MBAS-A | Analog Multistation Borehole Acquisition System

The multistation borehole acquisition system can be used for S-wave borehole tomography or downhole surveying. It consists of up to eight geophone stations each equipped with a tri-axial sensor. The string is fully water proof and can be used to receive P- and S-waves in dry or water filled boreholes.

All geophone stations are aligned and mechanically connected by a torsional stiff hose to ensure a correct sensor orientation. A magnetic compass placed in the lowest station shows the azimuth to North. Compass values are displayed at a surface box. All geophone stations can be coupled to the borehole wall by a pneumatic clamping system (air packer). Air is supplied to the geophone stations through a separate air hose. The borehole geophone string is terminated by a seismograph connector.



Upper 3C station with compass

Next intermediate 3C station

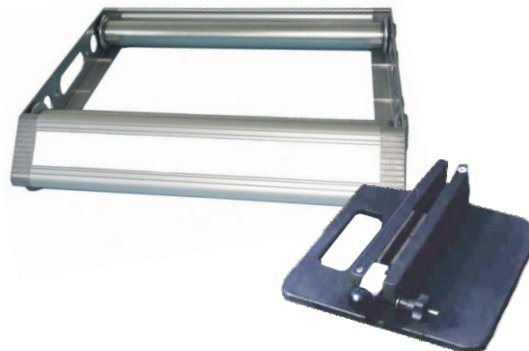


The multistation borehole geophone string is coiled on a drum.

Technical Details

- Natural sensor frequency:** 10 Hz
- Sensor arrangement:** Tri-axial
- Operational depth:** Up to 100 m
- Max. number of stations:** 8
- Station interval:** 1 or 2 m
- Station length:** 595 mm
- Station diameter:** 60 mm
- Station weight:** approx. 2 kg
- Cable weight per metre:** 200 g
- Cable strength:** 4700 N
- Borehole diameter:** 75 mm
- Clamping system:** Inflatable bladder
- Orientation:** Magnetic compass (+/- 2.5°)
- Depth indicator:** Cable marking every 2 m
- Connector:** To any seismograph
- Storage:** On drum

Accessories



To unspool the cable use the spooler device and fix the string at top of the borehole using the clamping device during field operation.