



**geotomographie**

manufacturer of seismic borehole equipment



## SBS1000 | P-Wave Source

The borehole source SBS1000 is designed for P-wave tomography between boreholes up to 1000 m depth. It can be used for high resolution surveying for CO<sub>2</sub> and nuclear storage monitoring, mining shallow gas and the investigation of geothermal reservoirs. The SBS1000 consists of three high-voltage tubes connected by reinforced hoses and a surface control unit. The downhole source and the surface control unit communicate via standard 4-conductor logging cable.



### Technical Details

- Generated wave types:** P-wave
- Operational depth:** Up to 1000 m
- Impulse voltage:** 3200 V
- Shot release:** Single or Auto
- Repetition rate:** Every 30 sec
- Signal frequencies:** Up to 5 kHz (depending on geology and borehole distance)
- Power supply at surface:** 230 VAC
- Source diameter:** 70 mm
- Total source length:** 4.30 m
- Source length of each high-voltage tubes:** 1.02 m (with 0.53 m connecting hoses)
- Borehole diameter:** Min. 80 mm
- Signal transmission:** 4-conductor logging cable
- Communication:** PCL boards
- Cable head:** GO-4
- Special features:** Test trigger, emergency OFF button, power consumption/voltage/communication control, impulse counter

P-wave source SBS1000 with tripod, logging winch and surface control unit.

### Data Example

The record shows a crosshole data example with a shot depth of 144 m and receivers placed between 168 and 122 m depth.

