

## SH - Wave Sparker Equipment

The basic seismic crosshole source equipment consists of the electric surge generator IPG 1005 and the remote control unit RCU. To the surge generator various seismic sparker sources can be connected. Triggering of the seismic acquisition system is performed by the remote unit.

The remote control unit RCU converts the reference signal of the surge generator to a trigger signal. Sparker pulses are released through manual or automatic triggering of the generator by the remote unit.



SH-66 Source

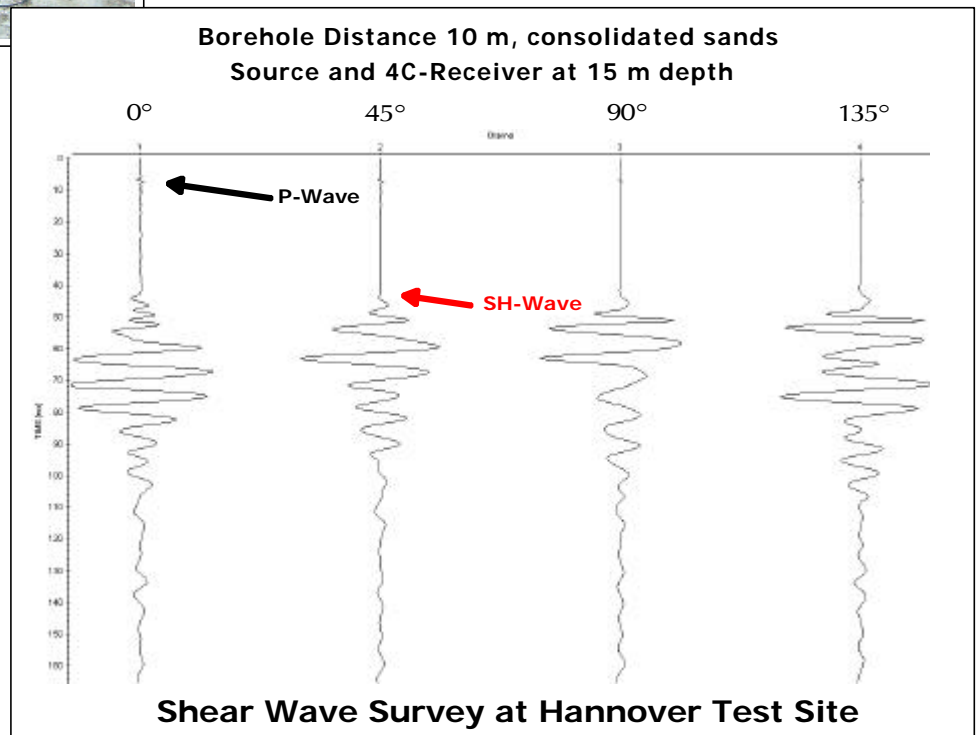
To generate the sparker pulses within the borehole the s-wave sparker probe **SH-66** is used (left). The SH-66 generates horizontally polarized shear waves by means of a horizontally directed pressure impulse.

Main part of the source is a thick-walled tube of stainless steel acting as reaction mass. A pneumatic operated clamping device serves to press the source against the borehole wall.

To supply and to control the clamping device an electrically driven air compressor is provided. To control positioning in the borehole an in-built azimuthal sensor is provided and a rotary pipe string to handle orientation of the shear wave coupling direction.

### Technical data:

- Length: approx. 1,3 m
- Applicable Borehole Diameter: 3" - 6" mm in dry or filled holes
- Weight (SH source): 20 Kg
- Clamping: Air Bladder
- Hausing: Stainless Steel
- In-Built Magnetic compass (5° resol.)



SH-66 record with 4C-borehole shear-wave receivers