



The Mini-Spark 1000 has been created to provide the portable high voltage PPS solution easy to mobilize at low cost.

## Description

### USER FRIENDLY AND SAFE

It integrates all unique features of the 2000 XF technology in a compact and lightweight design.

System status messages and operational parameters are displayed on comprehensive LCD.

All connections, command buttons, switches and status leds are intuitive and straightforward.

### MAINTENANCE FREE ELECTRODES 5 YEAR GUARANTEE

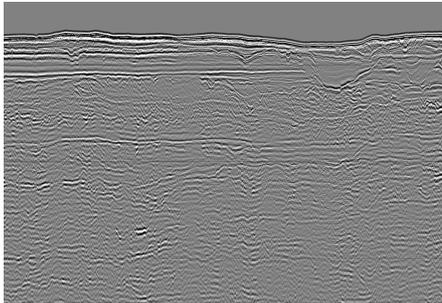
The Preserving Electrode Mode reduces the tip wear to practically zero. You can shoot day after day, week after week, month after month with practically NO tip maintenance.

### OPTIMUM ACOUSTIC REPEATABILITY

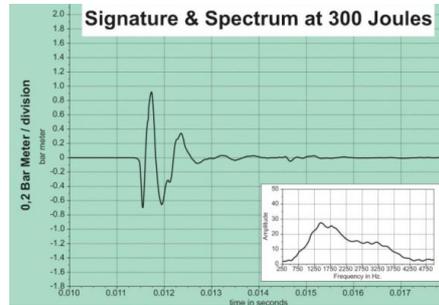
Zero tip wear is essential for the repeatability of the acoustic pulse, which depends largely on a constant, unaltered electrode surface.

## Operational Features

- Completely portable - can be easily handled by one person.
- Negative discharge technology.
- Very user friendly and safe



Geo Spark 200 and Multi-channel streamer.



broad signal spectrum at suitable power.



Portable carrier.

## Additional Features

### NEGATIVE HIGH VOLTAGE DISCHARGE

The Mini 1000 is using the Negative Discharge Technology allowing to acquire Ultra-High Resolution Seismic data day after day without wearing off the electrodes.

There is no other unit commercially available that allows you to generate a negative HV pulse with such a high dI/dt ratio.

The Hv discharge pulse has NO electrical oscillations, which affects the acoustic signature.

The state-of-the-art 10 kA thyristor allows high repetition rates and a perfect zero delay synchronization with the data acquisition system.

### HIGH QUALITY SINGLE CHANNEL SPREAD AT LOW COST

The Mini-Spark (36 kg) in combination with the [Geo-Source 200 LW marine sparker](#) (35 kg), a 40 m flex & floating HV umbilical (40 kg), a [Mini-Trace II UHRS acquisition system](#) (10 kg), plus a short [Geo-Sense Mini Streamer](#) (20 kg) is a full seismic spread that can be handled by one person!

### THE MINI-SPARK 1000 IS YOUR FIRST STEP TO DUAL SOURCE TECHNOLOGY

The innovative design of the Mini-Spark 1000 makes it possible to run one, two or three PPS' in parallel.

This unique feature opens effectively the way to the advanced dual or triple source technology, which allows to acquire the ultimate broad spectrum UHRS data. Running two or more sparkers in parallel makes it possible to fire the sources in flip-flop or tuned mode.

### SOME KEY FEATURES

- Undestructable Thyristor 10 kA-8000 V;
- High repetition rates - for instance: 4 shots of 500 J/s or 6 300 J shots/s;
- Very fast charging capability.

## Specification

<b>Dimensions (cm) &amp; Weight</b>	62 (L) x 50 (W) x 40 (H) & 36 kg
<b>Energy output</b>	From 100 to 1000 Joules (steps of 100 J)
<b>Charging capability</b>	2000 J per second
<b>Better if used with</b>	<a href="#">Geo-Source 200</a> , <a href="#">Geo-Source 200 FW</a> , <a href="#">Geo-Boomer 300-500</a>
<b>Recommended interface system</b>	<a href="#">Mini-Trace II</a> or <a href="#">Multi-Trace Server</a>
<b>Power Requirements</b>	220-240 VAC 50-60 Hz from 16 A mains or 5 kVA generator