

Maintenance free negative discharge and tunable frequency sparker specially designed for water depths up to 10,000 m.

Description

INNOVATIVE PRESERVING ELECTRODE MODE

The Geo-Source Triple 800 is designed for operation with the Geo-Spark 48kJ Pulsed Power Supply using the "Preserving Electrode Mode". This patented concept consists of using a NEGATIVE electric discharge pulse, instead of a positive electric discharge pulse.

Note that working with a negative pulse is NOT the same thing as reversing the polarity of an antique power supply, which is generating a positive pulse.

OPTIMUM ACOUSTIC REPEATABILITY

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

DETACHABLE SOURCE

The Geo-Source Triple 800 has the capability of detaching the source from the surface buoys, which makes possible to shoot with up to 5 m depth, providing more weather resilience and possibility for achieving a desired pulse shape and enhancing the low frequency content of the spectrum.

FROM SHELF TO OCEAN DEPTH

The Geo-Source Triple 800 has proven results of 1000 m penetration with with 0.5 m resolution in the first layers.

REVOLUTIONARY PULSE SHAPING

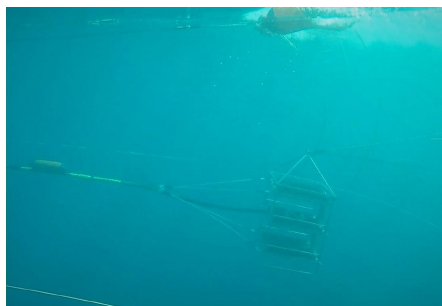
The revolutionary pulse shaping technology allows full control of the wavelet and frequency spectrum.

Operational Features

- Specially designed for water depths up to 10,000 m.
- Deep tow option with detachable source.
- Vertical resolution of 50-100 cm.
- Penetration higher than 1000 m.
- You don't need to trim tips during the survey - electrodes do NOT burn off.
- Recommended for ocean depth site surveys, geohazards assessment, mineral exploration and offshore engineering.



Electrical HV winch - for more information, click [here](#)



towing depth is adjustable from 0.5 to 5.0 meters



HV electrical winch panel

Additional Features

HIGH VOLTAGE / POWER CABLES

The Geo-Source Triple 800 is towed a very high quality, Kevlar-reinforced, coaxial power / tow cable, with a stainless steel Kellum towing grip. This very sturdy, special HV cable contains $8 \times 10 \text{ mm}^2$ inner leads (negative) plus a 80 mm^2 outer braiding (ground). It is designed to have a very low self-inductance in order to preserve the high dl/dt pulse output of the Geo-Spark 48kJ.

The wet side of the cable is terminated with eight special HV connectors to the electrode modules and a ground connector to the frame of the sparker.

COAXIAL CABLE = 100 % SAFETY + ZERO ELECTRIC INTERFERENCE

The coaxial structure of the HV power cable provides 100 % safety and reduces all electromagnetic interference to the absolute minimum.

HIGH VOLTAGE CABLE POWER WINCH + ROTATING HIGH VOLTAGE CONTACTS

The power winch with remote control and variable speed allows easy and safe deployment of the sparker source. The two axial HV connectors enables the operation of the winch without disconnecting the deck lead. Using the patch panel you can connect or disconnect the electrode modules without recovering the source to deck.

Specification

Dimensions (cm) & Weight	210 (L) x 160 (W) x 180 (H) for 600 kg
Number of Tips	$3 \times 800 = 2400$
Operation Depth (m)	up to 10000
Better if used with	Mega-Spark 48kJ , Geo Sense Mini Streamers , Geo-Sense Multi-Channel Streamers
Recommended interface system	Mini-Trace II or Multi-Trace Server