

Delta Sparker Seismic Sound Source



Key features

- Powerful sparker for deep penetration surveys
- Compatible with CSP-S12000
- 2.5 m triangular tow frame, supplied with buoys
- Tow depth can be adjusted
- Replaceable electrodes for easy field maintenance

Delta Sparker Overview

The Delta Sparker is the most powerful sparker available in the Applied Acoustics' range and is intended for deeper penetration sub-bottom profiling.

As a multi-tip sparker array, the Delta can be used in UHR multi-channel seismic surveys utilising 24 or 48 channel streamers such as during geohazard assessment, construction projects or shallow target 2D exploration.

Different sparker tips, single or multiple arrangements, can be used to increase resolution or penetration as required.

Technical Specification

PHYSICAL

Dimensions	2550 (L) x 350 (W) x 250 (H) mm (can be split in two for ease of shipping)
Weight	50 kg approx
Frame material	Stainless steel
Buoyancy	FA6 floats x 2
Depth of tow	Adjustable
Connector	RMK 1/0 complete with locking collar

ELECTRICAL INPUT

Recommended energy	1500 – 12,000 J / shot
Maximum energy	12,000 J / shot
Operating voltage	3000 – 4000 V
Number of tip locations	3 (yellow, blue, red) Operator selectable
Maximum number of tips	9 single: 3(3 x 1) 135 multi-tip: 3 (3 x 15)

SOUND OUTPUT

Source level	Typically 226 dB re 1 μ Pa at 1 metre with 6000 J
Frequency range	300 Hz – 5 kHz
Pulse length	0.3 – 5.0 ms Dependent on tips and power applied
Penetration	800 ms achieved

COMPATIBLE ENERGY SOURCES

Delta Sparker	CSP-S12000
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COMPATIBLE HV CABLE

Delta Sparker	HVC 3500 Standard length 75 m RMK 1/0 connectors complete with locking collars
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TYPICAL PULSE SIGNATURE AT 12000J

