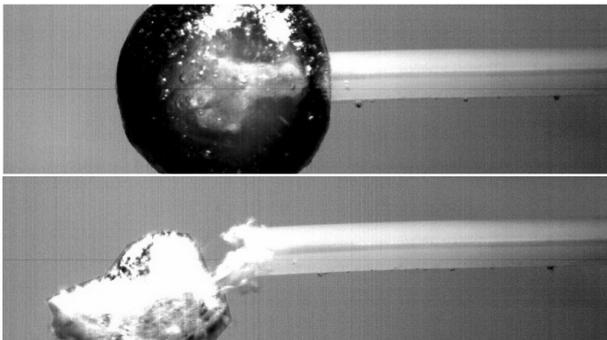
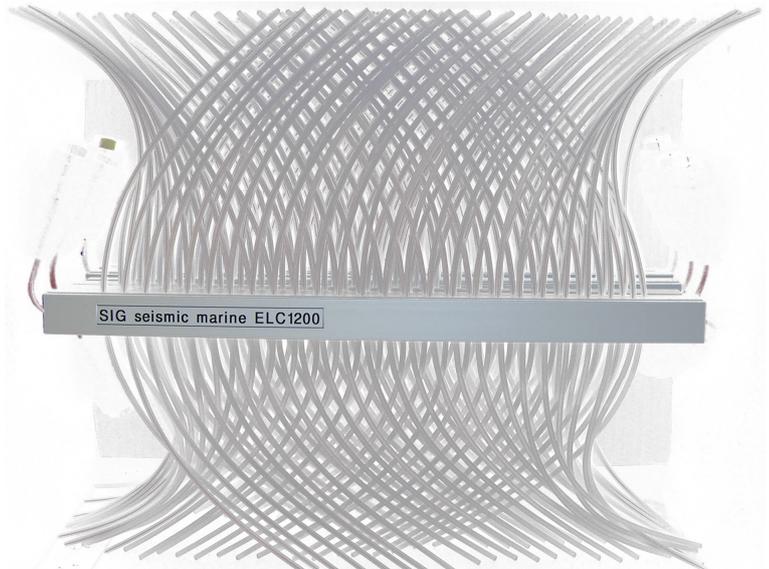


## Sparker electrodes

The SIG sparkers are characterized by their fish bone planar design. In order to keep them as light and practical as possible. **Launching the electrode is a one-man operation.**

These electrodes have the positive at the tips (cathode). The current lines are directed from the tips to the anode. This removes electrons from the tips causing the wear observed, and implying the need to trim those tips to keep the sparking and maintain the acoustic signature. Trimming the tips may seem tedious, but makes those electrodes very easy to carry and handle.



- ⇒ **Exchangeable and replaceable sparker-electrodes**
- ⇒ **Models adapted to the energy range,**
- ⇒ **Floating cable,**
- ⇒ **Ideal for small boat operation**

## Floating HV cable

The high voltage tow cable of the SIG sparker electrode are jacketed in flexible reinforced PVC, to insure a good floatability, and protection of the inner core cables against rough environments.

- External diameter : 27 mm
- Inner cables : 10 mm<sup>2</sup> or 16 mm<sup>2</sup> PVC insulated
- Static bend radius : 15 cm

## Applications

- ◇ **Subbottom profiling**
- ◇ **Stratigraphic studies**
- ◇ **Surveys in fresh waters & marine environment**

## Complementary equipments

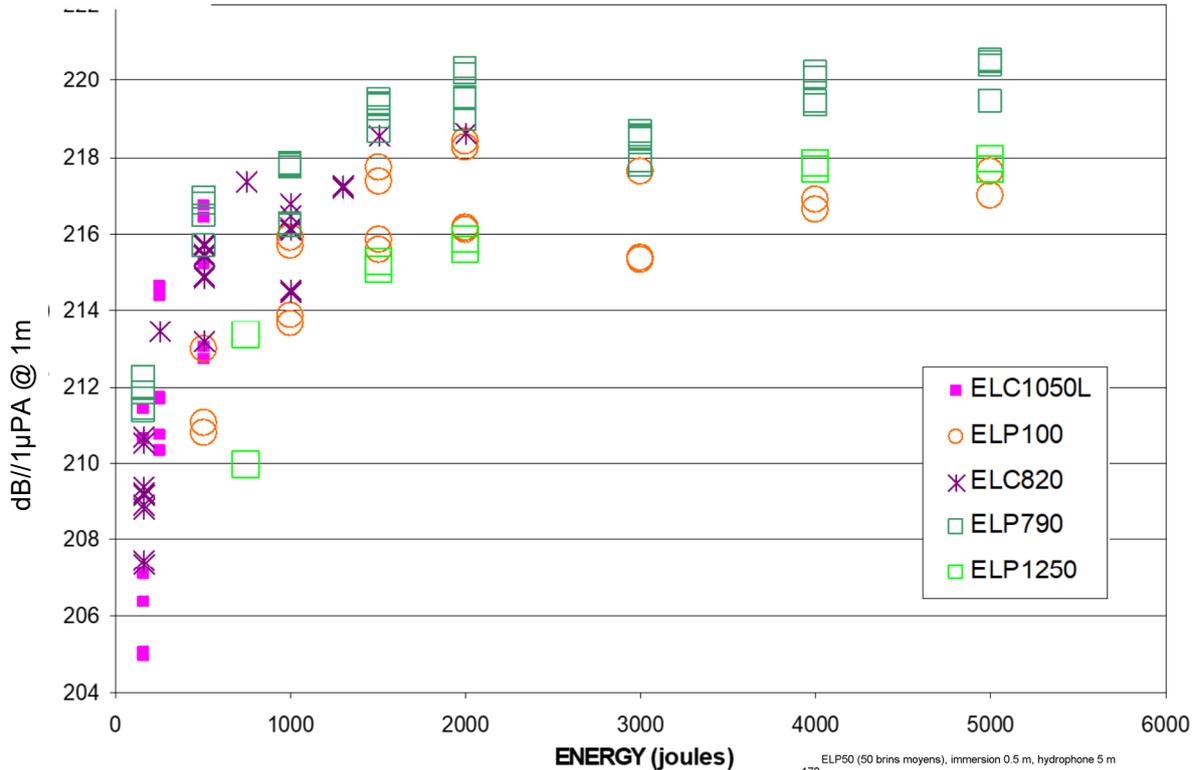
- ◇ **SIG Pulse energy source**
- ◇ **SIG 16 streamer**
- ◇ **Compatibility with any data acquisition system**

Sparker electrodes

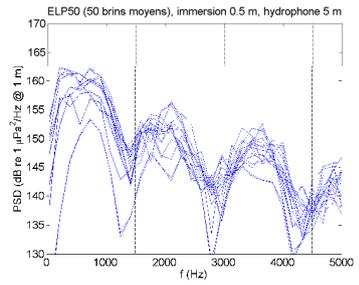
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[info@sigfrance.com](mailto:info@sigfrance.com)

Higher frequency	ELC1050L & ELC1200L	ELC820	EDL1020
Operating energy level :	100 to 500 joules	500 to 1000 joules	400 to 2000 joules
Frequency spectrum :	1000—1400 Hz	900—1400 Hz	900—1400 Hz
Acoustic power level :	217 dB re 1μPa @ 1 m	219 dB re 1μPa @ 1 m	220 dB re 1μPa @ 1 m
Pulse duration :	0.8 ms @ 250 J Immersed 20 cm	0.8 ms @ 750 J Immersed @ 20 cm	1.1 ms @ 1500 J, Immersed @ 40 cm
Dimensions :	1 m x 0.60 m x 0.04 m	1 m x 0.60 m x 0.04 m	1 m x 0.60 m x 0.06 m
Weight :	1.0 kg	1.8 kg	3.5 kg



**ELP SERIES**  
 COMPROMISE BETWEEN THE LOW COST  
 AND THE NECESSARY TRIMMING  
 THE ELP SERIES IS LONGER LIFE



Lower frequency	ELP790	
Operating energy level :	100 to 3000 joules Optimal 400-1200 joules	1000 to 6000 joules Optimal 1600 joules
Frequency spectrum :	< 800 Hz after 1000 J @ 50cm	Centered 1200 Hz @ 30cm
Acoustic power level :	220 dB re 1μPa @ 1 m	216-218 dB re 1μPa @ 1 m
Pulse duration (immersed @ 30 cm)	Primary 1.18 ms @ 500 J Delta T secondary 2.9 ms @ 1000 J	Primary 1.27 ms @ 2000 J Delta T secondary 2.8 ms @ 4000 J
Dimensions :	1 m x 0.60 m x 0.06 m	1 m x 0.60 m x 0.06 m
Weight :	2 kg	5.2 kg