The **S-Boom System** is a high power, high resolution repeatable sound source that can be operated at fast repetition rates.

The transmitted energy is focused by the array geometry to improve the directivity and beam pattern, giving an improvement over traditional sound sources.

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### Technical Specification

**S-BOOM SYSTEM COMPONENTS**

<table>
<thead>
<tr>
<th>Component</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Catamaran</td>
<td>CAT303</td>
</tr>
<tr>
<td>Boomer Plates x3</td>
<td>AA252</td>
</tr>
<tr>
<td>HV Cable</td>
<td>HVC3000</td>
</tr>
<tr>
<td>HV Junction Box</td>
<td>HVJ3000</td>
</tr>
</tbody>
</table>

Powered from a CSP-Nv seismic energy source

**PHYSICAL SPECIFICATION**

**CAT303 Catamaran**

- **Dimensions**: 1700mm (L) x 490mm (H) x 660mm (W) frame/876mm (W) including floats
- **Weight**: 60kg

**AA252 Boomer Plate (each)**

- **Length**: 380mm
- **Width**: 380mm

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**Key Features**

- Deep penetration seismic surveys with ultra high resolution data quality, better than 0.25m
- Three AA252 boomer plates provide a single, focused beam pattern
- Deployed with fast-charging CSP-Nv for optimum results
- Maximum energy output of 1000J per pulse, firing at 3 pulses per second
- Can be used with single and multi-channel streamer hydrophone arrays
- Perfect UHR package for research, mapping and construction geological surveys.
**S-Boom System Technical Specification**

<table>
<thead>
<tr>
<th>Weight</th>
<th>18kg (air), 10kg (water)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Connector type</td>
<td>RMK 1/0 complete with locking collar</td>
</tr>
<tr>
<td><strong>HVC3000 Cable</strong></td>
<td></td>
</tr>
<tr>
<td>Breaking strain</td>
<td>2000kg</td>
</tr>
<tr>
<td>Standard length</td>
<td>75m</td>
</tr>
</tbody>
</table>

**ELECTRICAL INPUT**

- **Recommended energy**: 700 – 1000J per shot
- **Maximum energy**: 1000J per shot
- **Average energy**: 3000J/second
- **Operating Voltage**: 3600 to 4000Vdc

Thermal interlock protection interfaced to energy source

**SOUND OUTPUT**

- **Source level**: Typically 222dB re 1μPa at 1 metre with 1000J
- **Pulse length**: 300 to 500μs depending on energy applied
- **Reverberation**: <10% of initial pulse

**COMPATIBLE ENERGY SOURCE**

- S-Boom System
- CSP-Nv (Primary source)
- CSP-Dv, CSP-S1250, CSP-S

**COMPATIBLE HV CABLE**

- S-Boom System
- HVC 3000
- Standard 75m
- RMK 1/0 connectors complete with locking collars

**TYPICAL PULSE SIGNATURE AT 1000J**