



Distributed Seismic Source™

Finally, a powerful downhole seismic source that is safe, reliable, and affordable



Control Electronics uses state-of-the-art programmable logic factory automation technology

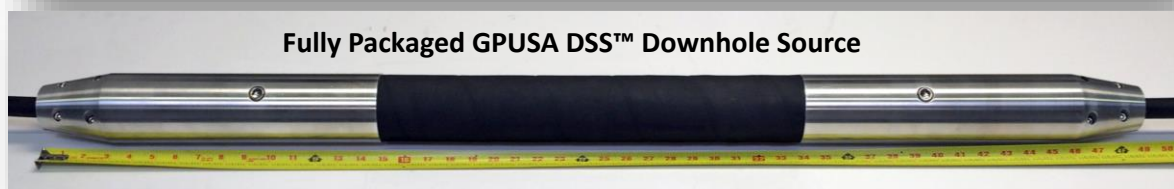
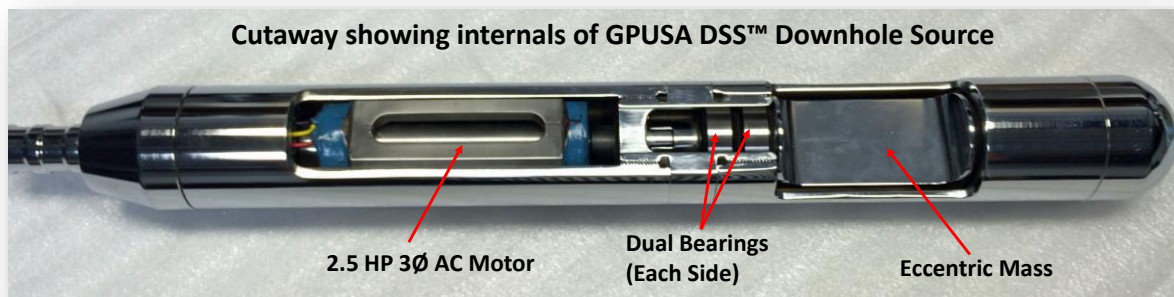
IP65 Enclosure provides protection from dust, oil and water wash down.

Electronics meets UL-508C standards for Industrial Control Equipment.



GPUSA's (Patent Pending) Distributed Seismic Source™ Features Include:

- Generates over 2400 pounds of force at 200 Hz.
- Reduces 95% or more of the attenuation seen by surface sources, effectively providing the downhole equivalent of a 50,000 pound-force surface source.
- Rugged, high performance digital accelerometer provides data for real-time QC monitoring and for correlation processing (deconvolution)
- Designed for fluid coupling, no downhole clamps; radial vibratory motion minimizes tube waves.
- Includes external connections for synchronization pulses, time stamps, contact closure, etc.





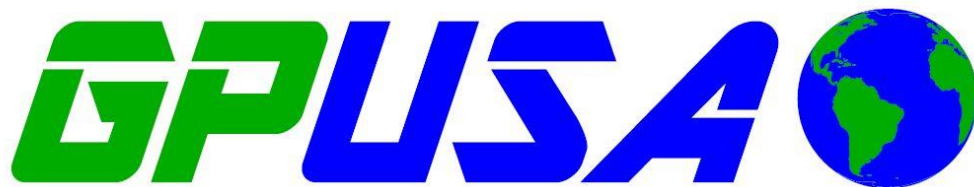
Rugged digital monitoring accelerometer in each DSS module is tested to withstand $\pm 5000g$, output displayed on touch screen



System is completely controlled via an easy to use touch screen. Can also be controlled remotely via the Internet

SPECIFICATIONS*		
Parameter	Units	Value
Frequency Range	Hz	30-200
Force Generated (at 200 Hz)	pounds-force	>2400
Max. Number of Source Modules/ Cable	number	10
Weight (Downhole Source Module)	pounds each	36
Length (Downhole Source Module)	inches	48
Max. OD (Downhole Source Module)	inches	3.0
Downhole Cable Diameter	inches	0.930
Downhole Cable Min. Bend Diameter	inches	30
Downhole Cable Break Strength	pounds	6000
Downhole Cable Working Load	pounds	2000
Downhole Electric Motor Output	horsepower	2.5
System Power Requirement	volts/amps/Hz	480V, 3Phase/10/50-60
Maximum Operating Depth	feet	1000
Source Module Max. Duty Cycle (in well fluid)	%	100
Source Module Max. Run Time (in air)	seconds	60 (5 min. wait between runs)
Operating Temperature Range (Downhole Equipment)	Degrees F	-20 to +150
Operating Temperature Range (Topside Drive Electronics)	Degrees F	-20 to +125

*subject to change w/o notice



Providing Technology for More Efficient Energy Production and Storage

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