

Fully Autonomous Seismic Reflection Surveying with Remotely Controlled Permanent Sources from GPUSA



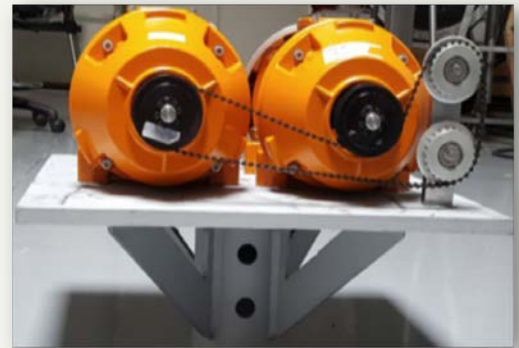
GPUSA's (Patent Pending) MicroVib™ Seismic Source Features:

- Helical pile foundations can bypass much of the lossy, near-surface attenuation effects
- Peak force of 4200 pounds at 200 Hz and 11,000 pounds at 100 Hz
- Linear vibration similar to traditional vibroseis
- Stacking of long-duration sweeps for penetration
- Easy to deploy
- Remotely controlled from anywhere - fully autonomous
- Purpose-built accelerometer provides real-time QC and reference sweep
- External connections for synchronization pulses, time stamps, contact closure, etc.
- Compatible with SensorEra Autonomous 6C seismic receivers

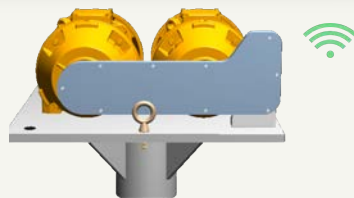


Linear Vibrator Autonomous Seismic Source by GPUSA

Parameter	Units	LV11K-100S	LV4K-200S
Frequency Range	Hz	0 - 100	0 - 200
Force Generated	Pounds -Force	>11,000	>4,200
Dimensions	Inches	24(L) x 24(W) x 10(H)	12 (length) x 9 (dia)
Weight	Pounds	275 (incl. base plate)	32
System Power Requirements	volts/Hz	480V, 3 Phase/50-60	240V, 3 Phase/50-60
Maximum Power (Continuous)	kW	4.4	2.6
Maximum Current	Amps	8 (@480V)	8 (@240V)
Max. Run Time in Air (Source)	Seconds	No Limit	60 (2 min. wait between runs)
Source Max. Duty Cycle	%	100	33
Operating Temperature (Electronics)	Degrees F	20 - 120+	20 - 120+
Operating Temperature (Source Module)	Degrees F	5 - 105	-20 to +125+



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**Helical Pile
Ground Coupling**

**Shallow Velocity
Profiles**

**Plume Front
Tracking**

