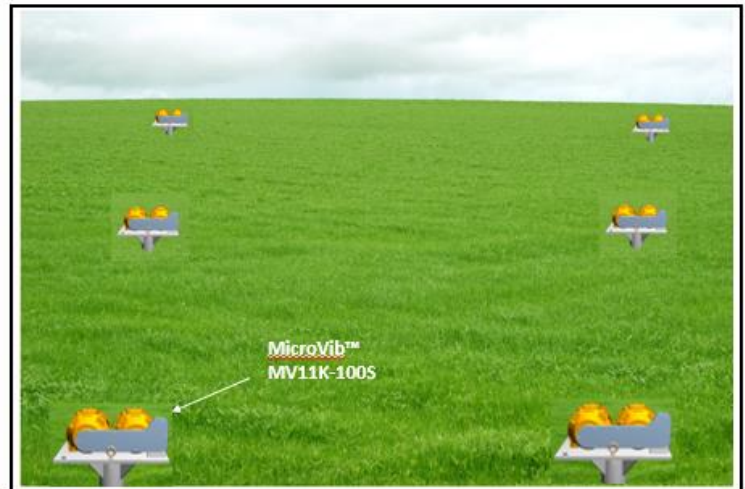
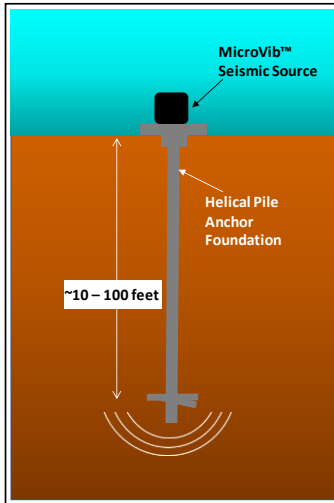




MicroVib™

Small but Powerful Linear Vibrator Seismic Source
World's First Surface-Mounted Downhole Source



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

- Helical pile foundations can bypass much of the lossy, near-surface, attenuation effects, **putting the power downhole, where you need it**
- MV4K-200S generates a peak force of >4200 pounds at 200 Hz
- MV11K-100S generates a peak force of >11,000 pounds at 100 Hz
- Produces linear vibration similar to vibroseis at a small fraction of the cost
- Stacking of long-duration sweeps increases energy into the earth
- Installs in minutes, designed for permanent installation, vibrators remain accessible at all times
- Rugged, high performance digital accelerometer provides data for real-time QC monitoring and for correlation processing (deconvolution)
- Includes external connections for synchronization pulses, time stamps, contact closure, etc.



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.



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Rugged digital monitoring accelerometer in each MicroVib™ module is tested to withstand +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	MV4K-200S	MV11K-100S
Frequency Range	Hz	0 - 200	0 - 100
Force Generated	Pounds-Force	>4200	>11,000
Dimensions	Inches	12 (length) x 9 (dia.)	24 (L) x 24 (W) x 10 (H)
Weight	Pounds	32	275 (incl. base plate)
Cable Diameter	Inches	0.93	0.93
System Power Requirement	volts/Hz	240V, 3 Phase/ 50-60	480V 3 Phase/50-60
Maximum Power (Continuous)	kW	2.6	4.4
Maximum Current	Amps	8 (@240V)	8 (@480V)
Source Maximum Duty Cycle	%	33	100
Maximum Run Time in Air (Source)	Seconds	60 (2 min wait between runs)	No Limit
Operating Temperature Range (Electronics)	Degrees F	20 - 120	20 -120
Operating Temperature Range (Source Module)	Degrees F	-20 to +125	5 - 105

*subject to change w/o notice



Providing Technology for More Efficient Energy Production and Storage