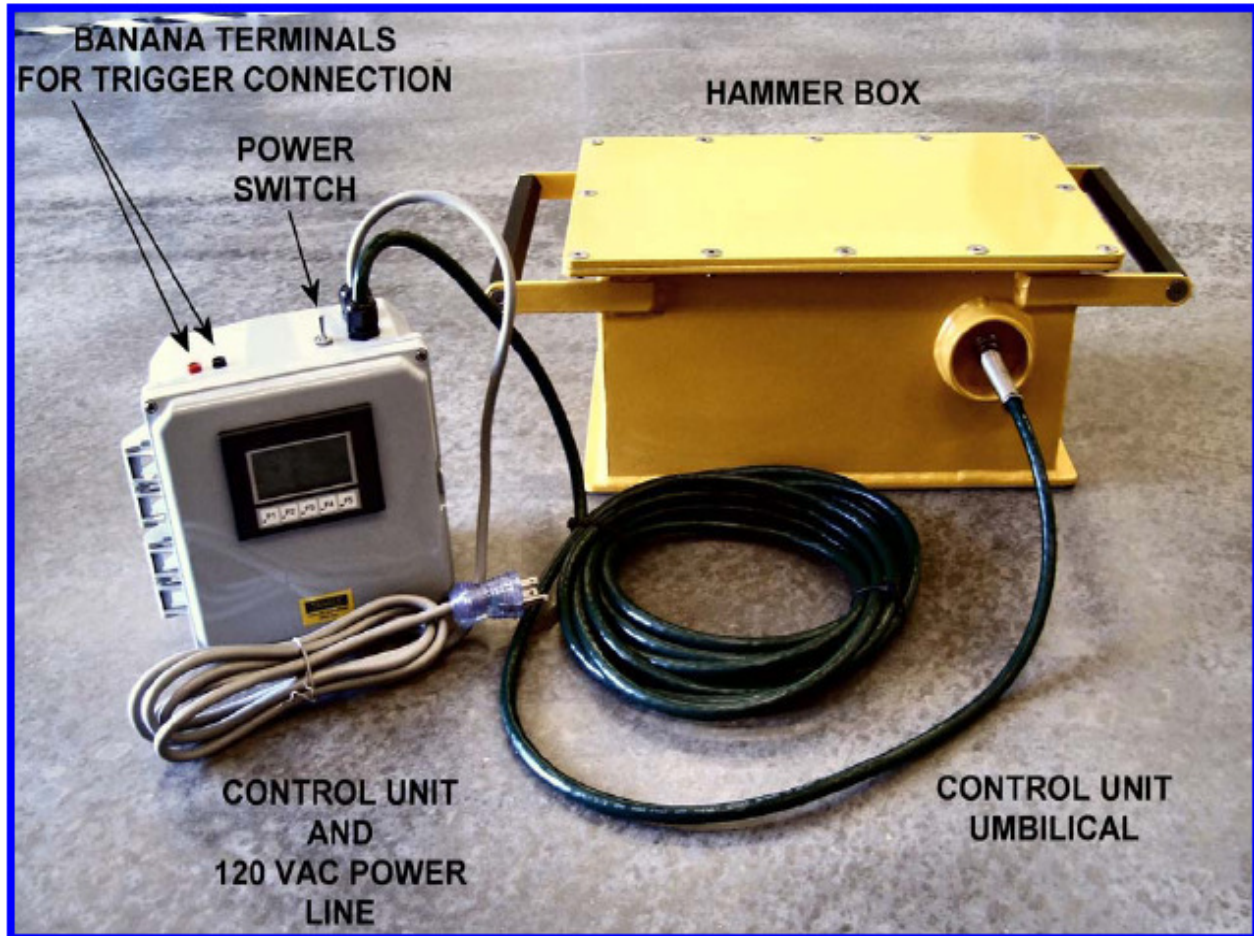
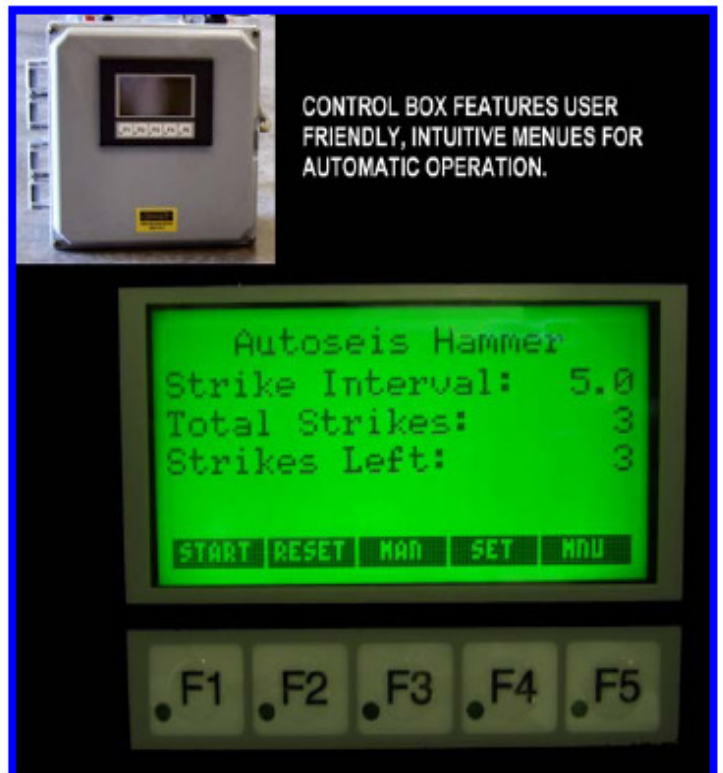


AutoSeis Hammer Shear Wave Generator

Model AH-GTR-001



- Generates horizontally polarized vertically propagating shear waves
- Portable
- Manual or automated operation
- Reduces personnel (no dedicated source operator) and increases productivity
- Consistent amplitude and frequency content
- Ideal for signal stacking
- For shallow (<100ft) investigations
- Use for monitoring velocity at regular time intervals for liquefaction or consolidation studies
- Use for continuous-push seismic testing



Manufactured under license from Georgia Tech Research Corporation, USA

AutoSeis Hammer Shear Wave Generator

Model AH-GTR-001

The AutoSeis Hammer Shear Wave Generator is a portable, remote controlled, automated shear wave source for downhole shear wave velocity testing. It is available to replace the most common seismic source in generating horizontally polarized vertically propagating shear waves.

The sledgehammer is the most common seismic source used for downhole shear wave velocity measurements. The quality of the shear waves generated by this method is inconsistent and such a crude device does not reflect the sophistication of the measurement. A sledgehammer source requires a dedicated operator and productivity may be relatively slow.

The device is placed under the outrigger of the testing vehicle or under the tire of the nearby support vehicle. The operator remotely activates the seismic source by using the digital control box. Individual shear wave impulses can be generated singly in manual mode. Continuously repeated shear wave impulses can be propagated at regular time intervals in automatic mode. With the design of the digital control box, each generated shear wave impulse is identical, thereby reducing one variable in field studies.

The AutoSeis Hammer Shear Wave Generator has been field tested to generate detectable shear wave signals to depths greater than 100-feet (+30-m). The water-tight, rugged enclosure is made from heavy gauge steel to support the weight of the testing vehicle. The bottom of the source is textured to improve coupling with the ground surface and is effective on soil, pavement, and rock.

For Questions or Comments Concerning Application and Theory, Contact:

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6323 Cambridge Street
Minneapolis, MN 55416 USA

Tel: 800) 523-1526
Fax: (952) 926-5498
Email: sales@giscogeo.com

Specifications:

Hammer and Control Box, Electrical

110/120 VAC

50/60 Hz

Control Box, Trigger Connection

Positive (red) banana terminals

Negative (black) banana terminals

Hammer Box, Piezoelectric Trigger

Type: Gisco G-ST-04-02-001-02

Output: Contact closure (open collector NPN)

Pulse Width: 5-ms

Max Voltage: 20-volts

Max Amperage: 100-ma

Protection: Over current, over voltage and reverse polarity

Size: 1-inch diameter x 3.5-inch length
(25mm diameter x 88mm length)