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PEG40 Data Sheet

The Propelled Energy Generator (PEG40) is a mobile high energy seismic sources for many near surface geophysical engineering applications. Its robust simple design and repeatable signature make the source ideal for large near surface refraction spreads and Multi-channel Analyses of Surface Waves (MASW).

The system uses a 12V DC motor, chain and sprocket to draw the weight, under load from an elastic belt, to the firing position. As the weight reaches its firing hight the weight is realest and accelerated to the ground. The motor is controlled by a simple two way deadman remote control. A standard Pezo electric hammer trigger can be mounted onto the hammer plate to trigger the seismograph.

Designed to be mounted on the rear of a vehicle via a standard 5cm square tow hitch (US standard), adapters can be supplied for mounting the source onto other tow hitches. Having a vehicle mounted source is convenient for conducting continuous 2D MASW roll-a-long spreads with a Landstreamer. Geomatrix are currently able to supply two such systems for rental.

PEG40 seismic source in use alongside a 72 channel refraction spread. Image taken whilst on site with Fugro-GeoServices Ltd.

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Product Dimensions

Physical	Dimensions (L x W x H)	Weight
(instrument only)	75cm x 60cm x 140m	195kg

Technical Specifications

Hammer Mass:	40kg
Hammer Drop Height:	up to 45 cm.
Cycle Time:	3 to 5 Seconds.
Seimograph Trigger:	Standard Pezo electric impact trigger (Hammer trigger).
Acceleration medium:	Elastic belt.
Motor power:	12V DC
Impact Frequency Band:	10 - 250 Hz.

Gallery

PEG40 Tow Hitch adapter.

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The PEG40 height is fully adjustable to allow the weight acceleration to be optimised for various vehicle.

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