



SWALE OCEANOGRAPHIC

STING Mk.II – Seabed Terminal Impact Newton Gradiometer

STING is a self-contained, tethered probe with a streamlined body and a long (up to three metres), slender steel shaft protruding from the nose cone. The unit is released from a vessel so that it drops freely through the water, reaching terminal velocity, and impacts into the sea floor vertically with its calibrated shaft and foot. Internal electronics record the deceleration as the shaft embeds itself into the layers of the bottom sediment.

It is designed for highly accurate *Bearing Strength Measurement* in a versatile, portable package.

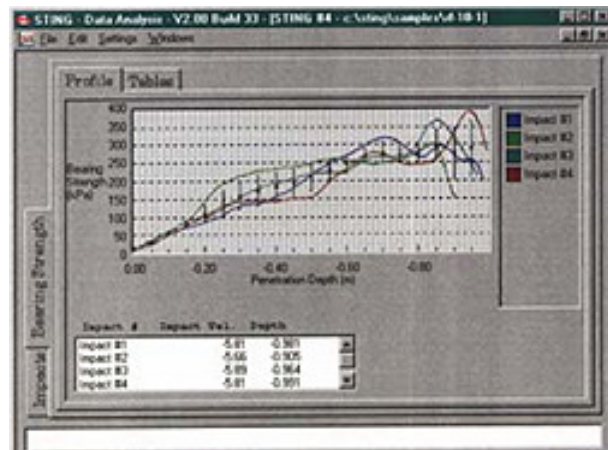
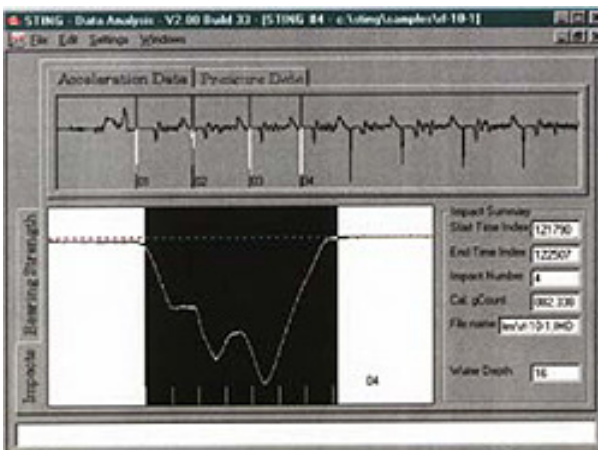
STING standard configuration: pressure recording/ depth activation, conductivity switch, 1 m shaft, standard 35 mm foot, battery charger, cables, carrying case and software.

Applications for STING include

- Sub-sea cable and pipeline route selection
- Sediment deposition determination
- Harbour surveys
- Environmental impact surveys
- Ground truthing for sub bottom acoustic profiling systems
- Pre-dredging seabed assessment
- Selection of appropriate equipment and methods in salvage operations

The system consists of:

- Newton Gradiometer probe recording deceleration with 1m shaft segment and standard 35mm contact foot. (shaft extensions and other foot sizes available)
- Battery charger
- RS232 serial data download cable
- Communications and data analysis software
- Storage / shipping container



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