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**sediment
sampling**

**sediment
corers**



OSIL offer a range of sampling equipment for the collection of sea-bed sediment from coastal to open ocean sites. In addition to the standard range of products, custom corers can be designed and manufactured according to customer requirements.

VIBROCORER

The high power Vibrocorer has been designed as an easy to use, easy to transport modular system capable of collecting cores up to 12m in length in coarse grained sediments. A large electric motor powers concentric weights to produce the necessary vibration, delivering a well-defined core of 100mm diameter and up to 12m in length. The cutting shoe and core catcher design minimise sample disturbance.



MULTIPLE CORERS

Multiple Corers allow the simultaneous collection of up to 12 tubes of undisturbed sediment, including the overlying supernatant water. The core tubes are 110mm or 65mm in diameter, 600 or 800mm in length and can collect sediment to a depth of up to approximately 500mm. The all-stainless steel corer design includes a hydraulically damped sampling method to minimize sample disturbance, and hydrostatically sealed core tubes which preserves the sediment/ water interface.



PISTON CORER

The Piston Corer utilises a unique piston and core catcher design inside the barrel to create an internal pressure differential on extraction. This minimises plugging and disturbance, and allows cores of up to 60m to be sampled in soft sediments and muds. The system utilises a trigger arm/acoustic release to operate the release and allow the final free fall penetration to obtain a core sample at depths of up to 12,000m.



GRAVITY CORER

The OSIL Gravity Corer is a simple, reliable corer for coastal or deepwater applications for the collection of sediment samples up to 6m long. The corer is made from carbon steel and is fitted with stabilising fins to ensure that the corer penetrates the seabed vertically. Removable layers of lead weights and an adjustable barrel length on the 6m version means that this corer can be easily customised for specific site surveys.



BOX CORER

Box (Spade) Corers are reliable units which offer a sample area of 0.25m² (Mega Box Corer), 0.1m² (Box Corer) or 0.05m² (Mini Box Corer). Their unique double-shovel mechanism and removable box allows easy access to the sediment sample for subsequent biological, chemical or geological analysis. OSIL Box Corers are supplied with a deployment deck stand and no-load release, and are fitted with removable weights for use in a range of sediment types.



For more information please visit our website osil.com