



Easy to use, easy to transport modular coring systems capable of collecting up to 12m cores in in dense / compact sediments in up to 600m water depth

The OSIL Vibrocorer is a high power modular system that can be quickly and easily deployed, delivering a well defined core sample of 96mm diameter, and is an ideal tool for the sampling of consolidated sediments.

The frame modules are easily assembled dockside or on the vessel itself into either a 3m, 6m, 9m or 12m system before deploying over the stern. The vibrocorer is powered by electrical motors in a sealed head housing that is designed to operate in water depths of up to 600m.

Once on the sea floor the high power vibrator motors are engaged to drive the core barrel and PVC liner into the bed with sufficient force to sample consolidated sediments. The sediment sample is well preserved and sample loss reduced due to the cutting shoe and core catcher, which have been specifically designed to minimise sample disturbance.

The unit has been designed for easy horizontal or vertical recovery on to the vessel and then easy recovery of the core barrel once back on deck. The ruggedized control unit is designed to operate in all weather conditions, and in salt water environments.

Applications

- Windfarm site investigations
- Cable laying site investigations
- Coastal engineering projects
- Academic research

Operational Dimensions

Height	3m unit	4.15m
	6m unit	7.15m
	9m unit	10.15m
	12m unit	13.15m
Width Tower		1.2m
Width Base Supports		5.0m
Weight (Standard)	3m	1450kg
	6m	1800kg
	9m	2150kg
	12m	2500kg

Power Supply:

Lightweight: 380V 3 phase supply, 1.8kW motors, 28A Start up current, 4A Operational current.

Standard: 415V 3 phase supply, 2.7kW motors, 43A Start up current, 8A Operational current.

High Power: 415V 3 phase supply, 7.2kW motors, 50A Start up current, 14A Operational current.

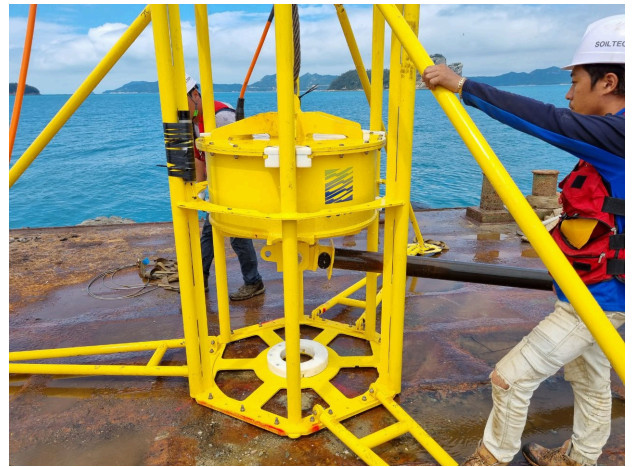
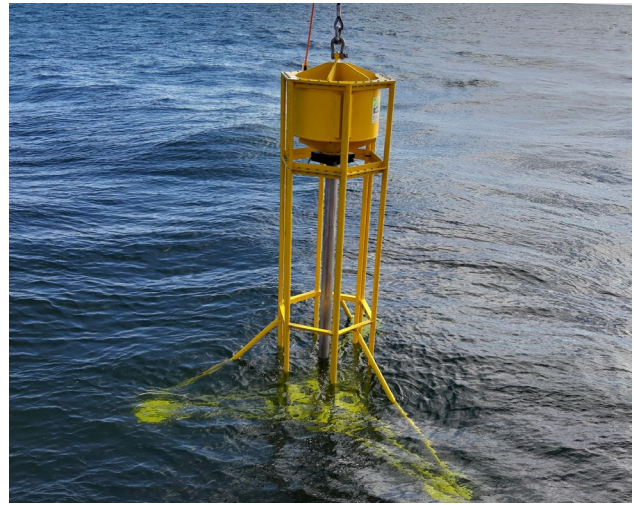
Vibration Force:

Lightweight 30kN, Standard 48kN, High Power 100kN

Optional Sensors:

Inclinometer, Penetration Rate, Penetration Distance

Additional sensors are available on request



Features

Frame (Epoxy Coated Steel)

- Base Plate
- Support Legs
- Vibrocorer Frame (3m sections)
- Vibrocorer Head fitted with high power vibrator motors

Coring (Sample Diameter 96mm)

- Corer Barrel 114mm OD
- Core Cutter
- Core Catcher
- Liner (PVC)

Surface

- Armoured Deck supply cable (415V)
- Ruggedized Direct On Line Starter Box
- Armoured High Power Vibrocorer cable (non load bearing)

FOR FURTHER INFORMATION PLEASE CONTACT:

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