



Applications

**Cable & Pipeline Route
Surveys**

**Aggregate & Mineral
Resource Evaluation**

**Geochemical Sampling
Surveys**

Pre-Dredge Technical Surveys

Nearshore Site Investigations

**Microbial Hydrocarbon
Prospecting**

CMS-Geotech own & operate a number of robust and proven standard marine vibrocorers which have been designed, built and proven to withstand the rigours of working in gruelling offshore conditions. Our team of highly skilled geotechnical engineers have built a formidable reputation within the industry for their competence and experience which enables them to deliver safe, reliable & cost effective services to clients around the globe.

Our systems have proven to achieve possibly the best penetration and recovery statistics of any high-powered vibrocorer operating in the UK in the last few years. With over 20 years of operational experience we have adapted and re-designed the vibrocore barrels to build on reliability and strength as well as improve speed of deployment turnaround.

All of our systems have their own real-time topside display ensuring accurate deployment and operation of the system, which when coupled with the operational knowledge of our geotechnical team, delivers an unrivalled package of high quality, accurate and cost effective results every time. We firmly believe in minimising sample disturbance and the realtime surface display of penetration allows the experienced operator to cease the test when all useful progression has been completed.

Standard Marine Vibrocorer

Seabed Sampling & Marine Geotechnical Surveys



Features

- Proven & robust system with 3m, 4m, 5m & 6m barrel as standard (additional lengths available up to 10m)
- Custom designed heavy gauge barrels to improve strength and reduce risk of seabed breakage
- Real time topside display showing barrel penetration
- High power purpose-built, variable impact force dual vibrator motor
- Bespoke Piston and core catchers to suit specific sediment conditions
- Variable impact to suit soils
- Winch options including separate power or integrated lifting and power cable options
- Optional sensors include penetration rate, penetration distance, seabed camera and water depth
- Modular construction making system easily transportable
- Suitable for loose & soft sand & silts

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CMS-Geotech is in the unique position to be able to offer our clients the peace of mind that only comes from working with a professional team with 20 years operating experience and a proven track record of consistent and reliable results.

Our high powered vibrocores are provided with a competent and experienced geotechnical engineer, a full spares kit and optional basic lab analysis. The systems can be deployed from our own highly versatile 24m survey vessel, MV Flatholm, or from a vessel of opportunity.

This unit has a modular frame construction allowing for the recovery of 3, 4, 5 or 6 metre continuous 86 mm diameter samples in water depths of up to 200 metres. (Additional sample lengths of up to 10m are also available)

The CMS-Geotech Vibrocorer system incorporates an electric twin-linear motor producing a centrifugal force of 9100kgs from a 415v, 50-60Hz 3-phase power supply.

Standard Marine Vibrocorer

Seabed Sampling & Marine Geotechnical Surveys



Std Height Ranges	Barrel length - 3-6m (frame length of 4.2m-7.2m)
Power	Electric, 3Ph, 380-415v, 50-60Hz
Motor	Twin-linear 13HP
Centrifugal Force	2826 kg
Base Diameter	5m
Weight	1.8 tonnes
Depth Rating	300m

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