



KUM Offshore

KUM Offshore, or KUMO, offers a comprehensive Ready to Go **subsea vibrocoring service** which can be complemented by in situ acquisition of thermal conductivity profiles.

- The Vibrocorer is located in Invergordon, Scotland and is ready to use
- The Damen vessel with experienced crew is supplied and operated by Seafast Maritime from the port of Invergordon
- Research laboratories are lined up to process and interpret the cores and heat flow data

The Ready to Go package, fully adaptable to ensure the client's objectives are met, is available at short notice

KUMO Vibrocorer is a sophisticated, electrically driven, vibrating coring system that can rapidly extract optimum samples in water depths up to 1000m. The unique VC (VKG) 3/6/9 model has been used in harsh conditions and challenging environments for many years and has many satisfied clients, including Federal Maritime and Hydrographic Agency (Germany), MMT (Sweden), Fugro and Geo Marine Survey Systems (Geo-Corer) (Netherlands), Next Geosolutions (Italy) and Jan De Nul (Belgium).

By complementing the functional components of a VKG6 type Vibrocorer with thermal conductivity device, KUMO offers a new method to measure in situ thermal conductivities for cable routes surveys and other applications.

Designed and built in Germany, KUMO Vibrocorer offers a number of technical features:

- **lighter and more compact** than competitors' systems; can be operated on smaller vessels with winch/lift capacity of just 20 kN
- four-component design, making manual assembly **quick and straightforward**
- the ability to **penetrate through harsh layers** such as gas hydrates, permafrost soils or "sands"
- a typical penetration/extraction cycle time is just **5 minutes**
- the unique design of cutters, catchers and valves and a patented flip-aside barrel mechanism enable maximum filling of the barrel and a **fast extraction** of the core sample
- variable uploads allow to minimise a resorting of the sediment and to maintain the integrity of its fine structure, producing **high quality cores**
- extraction rate of up to **40 cores/sites per day**

KUMO Vibrocorer offers ultimate sample control and data transmission, whatever the project, thanks to its deployment flexibility:

- the standard core barrel length is 6m but can be adjusted to any length between 3m and 6m
- split barrels up to 9m and transparent liners are available on request
- deep water requirements are met by either supplying umbilical fibre-optics or by battery-driven version with memory-based control and data storage

In addition to the Ready to Go service, KUMO Vibrocorer is available for purchase, rent or lease together with all the auxiliary equipment and consumables required

To deliver vibrocoring services offshore, KUM Offshore partners with Seafast Maritime, owners of the Isle of Jura, a new DAMEN RSV 3315 Offshore Service Vessel. The Isle of Jura is geared towards renewables service, anchor handling, dredger service, supply, towing, hose



handling and survey, and provides an ideal platform for vibrocoring operations.

For more information, please visit <https://www.seafastltd.co.uk/our-vessels/isle-jura>

The Ready to Go service can be delivered from a vessel of client's preference if it meets the minimum requirements for safe and effective vibrocoring operations.

On completion of the offshore section of the Ready to Go service, KUM Offshore delivers the collected cores and thermal conductivity data to research laboratories where they are analysed and interpreted.

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