BGS RD2 REMOTE SEABED ROCKDRILL

ROCKDRILL SPECIFICATIONS

Capable of coring up to 50m below the sea bed in a maximum of 4000m of water.
The unit is containerised and comes complete with launch & recovery system (LARS).

Downhole Logging:
Combined - 360 deg optical, acoustic and spectral gamma. Other tools in development.

Overall dimensions:	4.5 m high with 3 m span at the extremities of its legs
Weight in air:	6.0 tonnes
Core barrel:	HQ with steel inner tube, 1.7m effective core lengths
Core size:	62 mm
Core bit types:	TC, surface set diamond, PDC, and impregnated diamond
Core bit RPM:	0–405, infinitely variable
Shipping:	5 x 20ft x 8ft 6" ISO containers, (Control Container, Workshop Container, Drill Container, Drill Tools container and Spares container). 1 x 20ft x 9ft 6" LARS Container 1 x 20ft Winch Container Total shipping weight approximately 80 tonnes.
Power requirements:	Control container has a 415VAC, 3 phase, 50/60 Hz, 500 Amp distribution system for all drill subsystems. • Drill: 415VAC, 3 phase, 50/60Hz 125 Amps • LARS and winch 2 x 415VAC, 3 Phase 50/60Hz 125 Amp • Control Container Internal systems, 415VAC, 3 Phase 50/60Hz 63 Amp • Workshop Container, 415VAC, 3 Phase 50/60Hz 63 Amp

OPERATIONAL REQUIREMENTS

The Rockdrill requires a vessel or platform with good position keeping (DP or moorings), adequate clear deck space of 5m x 10m for the LARS, Drill and winch and an additional space for up to 4 x 20ft ISO containers, for control, workshop, drill tools and spares containers. A core curation area would also be advantages.
Current umbilicals allows operations in water depths to 2000m and 4000m.

LARS and Winch specifications and requirements

The LARS is electro-hydraulically operated from its own power pack and is be operated by a remote control box.

LARS base dimension:	5 m x 10 m
LARS weight:	32 tonnes
Minimum Deck Strength:	5 tonnes per square metre
Power pack dimension:	2.5m x 1 m x 2.9 m high
LARS Shipping:	LARS and power pack are assembled into a 20ft high cube ISO container
Winch Weight:	17.5 tonnes (2000m) and 30 tonnes (4000m)

BGS Seabed Drill and LARS

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