



## Highlights

- Very Low Acoustic Signature
- Cutting-Edge Equipment
- Operates with Bio-Fuels
- Low fuel Consumption
- High Transit Speed

## Karina Offshore Survey Vessel

The Karina is a 55m DP1 Offshore Survey Vessel fitted for geophysical survey projects.

She is permanently equipped with cutting-edge survey equipment, such as a Hull-Mounted Dual-Head Multibeam, Side Scan Sonar, Sub-bottom Profilers, Magnetometers and Gradiometers Frames to serve various types of works, including UXO surveys.

The vessel operates with low fuel consumption, even at high transit speed and is also able to run 100% on biofuel. The Karina is particularly fitted for 2D and 3D UHRS acquisitions as she has a very low acoustic signature that provides an optimised signal to noise ratio.

# Karina

## Technical Specifications

### General

Name	Karina
Year	2016
Classification	Lloyds
Flag	Marshall Islands
Builder	De Hoop
Call Sign	ORUK
Imo No	9731262

### Dimensions

Length Overall	55.00m
Beam	9.00m
Draft	3.10m
Gross Tonnage	495mt
Deck Space	160m <sup>2</sup>

### Machinery

Propulsion	Hybrid Diesel-Electric
Main Engines	2x Caterpillar 3516 2350kW
Bow Thrusters	1x Veth 135kW
Propellers	2x fixed 5 blades 1800kW 2100mm
Cruising Speed	20 Knots
Survey Speed	3-6 Knots

### Capacities

Fuel	63m <sup>3</sup>
Fresh Water	35m <sup>3</sup>
Water Maker	6m <sup>3</sup> /day

### Deck Equipment

Deck Crane	1x TMC BS500M6 (3244kg/12m) 1x HLMR 5.2S (750kg/7m)
A-frame	Flexible and Extendable for Various Towing Configurations
Moonpool	1x 1000mm 1x 1200mm
Winches	3x Survey Grade Winches

### Accommodation

Total Cabins	16+4 Cabins – Flexible Occupancy
Work Spaces	Survey and Processing room

### Positioning and Communications

DP System	DP 1
GNSS – 1 <sup>st</sup> Receiver	INS - SBG Navsight Apogee Marine (RTK and PPP compatible)
GNSS – 2 <sup>nd</sup> Receiver	Septentrio AsteRx-U3 Marine (RTK and PPP compatible)
Gyro/MRU	INS - SBG Navsight Apogee Marine
USBL	Moonpool Mounted Kongsberg µPAP 201-3
Communications	V-Sat / Iridium, Starlink Maritime, 4G and 5G, Full Coverage Wi-Fi

### Survey Equipment

Multibeam Echosounder	Hull-Mounted Kongsberg EM2040-04 MKII Dual Head Dual Swath
Sound Velocity Profiler	TeledyneOdom DigibarS DS / Valeport Mini SVS
Side Scan Sonar	Edgetech 4200/4205/4125
Sub Bottom Profiler	Moonpool Mounted Innomar– SES 2000 Medium 100 / Edgetech 3400 Chirp / Boomer Applied Acoustics AA251/AA301
Magnetometer	Geometrics G882 – Single Sensor or Multi-Sensor Frame
UXO	Various Configurations up to 2x Magwing® 6.10
2D/3D-UHRS	Various Source and Streamer configurations as per requirements
Grab Sampling	Van Veen / Box-Corer

