



R/V SHEARWATER

MULTI-ROLE SURVEY VESSEL

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R/V Shearwater combines superior stability and maneuverability with state-of-the-art research facilities to provide a flexible, multipurpose platform for marine surveying. The vessel fills the gap between small coastal and large offshore survey platforms providing a cost-effective solution for many applications. In addition, the Shearwater allows for a single vessel to complete different tasks, such as geophysical, environmental, and geotechnical surveys, thereby affording our clients the opportunity to save both time and money.

The Shearwater is designed to be flexible, enabling it to provide efficient and effective configurations for the completion of its missions. The shallow draft (7') 110' x 40' aluminium twin-hull Shearwater boasts a hydraulic azimuth drive propulsion system which is fuel-efficient while providing superior positioning and line-keeping performance. In most instances, this allows the vessel to hold station without resorting to anchoring. The Shearwater also features a large back deck, two equipment moon-

pools, a crane, hydraulic stern A-frame, fixed starboard A-frame, dedicated equipment winches, laboratory and office space with onboard data processing capabilities, and accommodation for up to 20 people on a 24-hour basis.

A professional crew, with extensive experience in offshore survey and construction operations, allows clients to take advantage of the full list of impressive capabilities the Shearwater can bring to a project.

R/V SHEARWATER HAS BEEN DESIGNED TO SUPPORT THE FOLLOWING KEY AREAS:

- Offshore Structure Surveys (Wind, Oil & Gas, Hydrokinetic)
- Cable and Pipeline Route Surveys
- Marine Aggregate and Mineral Surveys
- Environmental Surveys
- Oceanographic Instrument Deployment and Recovery
- Port and Breakwater Development Surveys
- ROV, AUV and Diver Support
- Offshore Construction Support and Monitoring Surveys



VESSEL DETAILS

Name: Shearwater
Type: Multi-Role Survey
Year of Build: 1981
Reconfigured, Refit and Repowered: 2011

DIMENSIONS

Length: 110'
Beam: 39'
Draft: 7'
GRT: 96
NRT: 74
Aft Deck: 1175 sq. feet with separate stern rescue deck

ACCOMMODATION

Berths: 20 including crew
Survey Lab: 127 sq ft
Processing Office: 72 sq ft

PROPULSION AND MACHINERY

Main Engines: 2 x 526 HP John Deere Model 6125AFM
Propulsion: 2 x Hydraulically driven "Z" Drives (raise/lower/tilt with 360 degree steering).
Generators: 2 x John Deere Model 6081AFM/Marathon (Magna Plus) 135 Kw

CAPACITIES

Desalination System: 900 gallons/day
Fresh Water Storage: 5000 gallons.
Fuel Storage: 6800 gallons
Septic: Zero discharge with 2000 gallon holding tank
Endurance: 14 days

FUEL CONSUMPTION

Survey 24hrs: 300 gallons/day
Steaming: 500-600 gallons/day
Standby at Sea: 70-100 gallons/day

NAVIGATION

Radar: Furuno 1944C/NT
Charting System: Garmin 5208 GPS with Chart Plot
Auto Pilot: COMNAV
Echosounders: Furuno FCV -620 Color in each hull
AIS: Furuno FA 150
Survey GPS, Heading and IMU: Applanix POS MV
Acoustic Positioning: Moon Pool mounted USBL

EQUIPMENT HANDLING

Equipment Moon Pools: Port and Starboard 3 foot diameter moon pools
Hydraulic Stern A-Frame: 2 Ton Capacity. Can operate as two separate davits.
Fixed Starboard A-Frame: 5 Ton Capacity
Crane: 14 Ton Maximum Capacity. 2 Ton at 40' Extension.
Geotechnical Winch: 5 Ton Capacity
Survey Equipment Winch: 2500m (11mm diam.) Capacity

SURVEY CAPABILITIES

Hydrography and Geophysics
 Multi-Beam and Single Beam Echosounders
 Side Scan Sonars
 Subbottom Profilers
 Boomers
 Sparkers
 Mini Air Gun
 Multi-Channel Streamers
 Magnetometers and Gradiometers

Benthic and Oceanographic

CTD and SVPs
 Water Sampling Systems
 Turbidity Monitoring Systems
 Benthic Grabs
 Box Corers
 Drop Down Cameras

Geotechnical

10 to 30' Pneumatic and Electric Vibracores
 Mini-CPTs
 Piston Corers
 Drop Corers
 Grab Samplers

Other

Deployment and Retrieval of Inspection Class ROVs and Compact AUVs
 Dive Platform Capable
 Permanently Installed Networked Server



