

Polar Duchess

Benefits:

- Built in 2011, seismic configurations up to 12 streamers
- Bollard pull approx. 200 T, wide-tow track record
- Flexible towing configurations with triple source, broadband source and broadband receiver
- Fully steerable and acoustically braced solid streamers
- Cost efficient
- Experienced crews & support organisations, including multi-vessel/undershoot operations
- Onboard Processing & Imaging Services, integrated Instrumentation, QC and Processing Department

The Polar Duchess delivers ultra-wide tow, broadband and long offset configurations



Overview

The Shearwater high-capacity vessel, Polar Duchess, delivers ultra-wide tow, broadband and long offset configurations, ideal to accommodate all exploration requirements. Her powerful bollard pull and redundancy provides the highest levels of operational performance.

The vessel has a strong track record of working in frontier exploration areas, safely managing the HSE exposure associated with multiple deployment and recovery operations. This means the Polar Duchess can efficiently acquire large survey programs in harsh operational conditions that prevent the offshore transfer of personnel, minimising standby time for our clients.

Our experienced seismic crew, coupled with the services provided by GC Rieber Shipping, benefit Shearwater and our clients. We deliver a uniform platform upon which the onboard culture and focus on safe operations is based. Shearwater is fully ISO 9001:2008 certified, maritime operations are managed under the CG Rieber Shipping ISO 14001 environmental standard certification.

The Polar Duchess provides excellent crew welfare and comfort through her comfort class and design features.

Onboard processing services are available on every Shearwater vessel. Our Marine Acquisition and Processing & Imaging teams work hand-in-hand to produce the highest quality seismic data and Fast Track deliverables for every type of survey and for every type of acquisition technique. The Shearwater Reveal Processing Software provides the tools for Real Time QC and onboard time imaging. Reveal also provides for the estimation of the far field signature using near field hydrophone data that then allows for directional de-signature, the Shearwater **SHarpSig** technology.



General	POLAR EMPRESS	POLAR DUCHESS	POLAR DUKE	POLAR MARQUIS
Owner / Manager	Shearwater Geoservices / GC Rieber Shipping			
Port of Registry	Bergen	Limassol	Limassol	Bergen
Flag	Norway - NIS	Cyprus	Cyprus	NIS
IMO Number	9687370	9378216	9378204	9190298
Classification	DNV			
Built	2015	2011	2010	2000/2014
Fuel Capacity	3200 cu. m	1820 cu. m	1820 cu. m	4100cu. m
Length	112.6m	106.8m	106.8m	118.5m
Beam	21.5m at waterline / 25.8m Max	19.2m at waterline/ 22m Max	19.2m at waterline/ 22m Max	22m at waterline/ 26m Max
Draft	Max 7.2m	6.5m	6.5m	7.3m
Gross Tonnage	10,138 tons	7,142 tons	7689 tons	13,339 tons
Total Propulsion	2 x 9289kW	2 x 7100kW	2 x 7100kW	2 x 6480kW
Azimuth Thruster	1 x 1500kW	1 x Rolls Royce - UL 2001 CP - 2100kW	1 x Rolls Royce - UL 2001 CP - 2100kW	1 x1500kW Fwd & 1 x 800 kW Aft
Cruising Speed	18 knots	17 knots	17 knots	14 knots
Berths	70 cabins/ 70 bunks	60 bunks	60 bunks	77 bunks
Helideck	Up to S92			
Bollard Pull	>250 T	Approx. 200 T	Approx. 200 T	Approx. 200 T
Shearwater Reveal				
Quality Control	Real Time and Post Line standard			
Signature Estimation	Far field from near field			
Fast Track	Project specific Fast Track processing sequences available			
Seismic Source				
Airguns	Bolt LL up to 10,000 cu. in @2000 psi			
Gun Control System	Seamap Gunlink 4000			
Compressors	3 x LMF 1695 SCFM			
Operating Pressure	2000 psi			
Seismic System				
Streamer Type	Sercel Sentinel			
Seismic Cable Configurations	Up to 22 streamers	Up to 12 streamers	Up to 12 streamers	Up to 16 streamers
Navigation System	Orca			
Streamer Positioning & Steering	Nautilus			