

GQuest

Innovation For Good

'Launch' Date – 14/02/2023



GQuest



The G-quest is the second in the G Series concept designed for humanitarian purposes.

G-Quest is an oceanographic Class 2 icebreaker, marine research, medical research vessel with humanitarian capabilities; for example, a 20+ -bed hospital including 5G connected robotic surgery facilities. She also features a full Oceanographic Laboratory Medical Laboratory, MRI X-ray Imaging, Ophthalmology department, and a dentist suite.

She carries a ship-to-shore landing craft that can be used to pick-up and transport vehicles, large cargo, and patients. She has her own onboard crane that can lift freight onboard. She has a cavernous aircraft hanger, large enough to house two Sikorsky S-92 VIP helicopters, and one smaller helicopter.

Hybrid propulsion systems driven by approximately 30 gen sets, that can use various types of green fuels, technologically upgradable to test and research new types of fuels.

Security of the vessel and its passengers is paramount and so security is inherently designed into the vessel, Kozloff Designs also provide a full turnkey Owners Representation Service that includes mobile and personal security too.



GQuest



Quest





Specifications

Overview

Name: G-Quest
Yacht Type: Explorer/ Research
Yacht Subtype: Full Displacement

Dimensions

Length Overall: 708' WL Length 678.8'
Beam: 98.4' at WL 83.5'
Max Draft: 20' Air draft 177.1'
Displacement Tonnage: 24,407

Construction

Builder: TBD
Year of Build: TBD
Hull Number: TBD
Number of Decks: 12

Performance and Capacities

Max Speed: 20kts
Cruising Speed: 14kts
Range (nm): 20000
Fuel/Energy Capacity: Various

Build and Design

Builder: TBD
Designer: Steve Kozloff

Materials

Hull: Steel
Superstructure: Aluminium
Deck: Teak or equivalent

Accommodations

Guests: 26
Crew: 150 (Doctors, Scientists, Pilots, Nurses, research engineers, and ships crew)
Master Rooms: 2
Twin Rooms: 10
Owners Suite: 1

Engines/Propulsion

Make: Various
Model: Various
Type: Electric
Quantity: 4 azimuth thruster
Bow Thruster: 2
Total Power: 20000hp

Special Features

Helipad: with 6545 sq ft. hangar with full aircraft maintenance facility.
Water level seaplane hangar: Two Cessna Caravans
Submarine: 1
Hospital: 20 Bed MRI, CAT scan, Ophthalmology, full surgical capabilities.
Marine research laboratory: 1
Propulsion research testbed for various propulsion systems: Hydrogen, Methanol, Thorium Molten Salt Reactor, Bio diesel, various battery technologies.
Ship to shore landing craft: 1
Classification
Flag: TBD





GQuest



The G-Quest's unsurpassed global maritime range of 20,000km, combined and smartly further expanded by her onboard equipment for research and pleasure, including ship-to-shore operations via her ability to transport personnel by seaplane, up to 2100km from the vessel to shore*, is a gamechanger for this scale of vessel.

G-Quest





GQuest



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Design and features

- Large multi-functional explorer vessel (220 meter long with 30-meter beam).
- Full displacement hull
- Long range 20,000+ nautical miles
- Aircraft hangar for two Sikorsky S-92 VIP helicopter and two Cessna Caravan Seaplanes, accommodated onboard via a waterline full beam hanger, accessed from Port or Starboard. The G-Quest also comes with one Four-Rotor Steve Kozloff designed SSAL.
- Fully equipped with the finest available navigation, detection and communications equipment.
- Six fast fully electric, hydrofoil tenders by Candela.
- One heavy cargo electric ship-to-shore landing craft for transporting vehicles and bulk freight.
- Garage to accommodate and launch one U-Worx Research submarine.
- Complete dive center with decompression chamber.
- Three fully electric Taiga-Orca jet skis.
- Garage designated for two SUVs, including one mobile self-contained NimBl exploration vehicle.
- Full electronic and hard security measures including the APEV System and onboard CP Officers and facilities. Armored windows and Anti-terrorism/pirate systems
- Combined with its humanitarian purpose, G-Quest can if required, provide a luxurious environment including a movie theater, swimming pool, hot tub, fine dining etc. There are plenty of luxurious venues aboard the 220-meter G-Quest for the owner, their guests and staff.



Quest



SEARCH & RESCUE & GROUND SCANNING

The high-wing design and large windows of Caravan aircraft permit a 360° view of the ground below, while endowing you with stable slow-speed and low-altitude flying characteristics that permit a thorough sweep of your search grid. They are reliable, and possess the size and configurability needed for seamless integration of specialized equipment, while still enabling you to carry a larger crew. Their fuel efficiency and ample range allow for longer time on station, and their ability to access short or unpaved airstrips can be invaluable to rescue operations.



The G-Quest's very impressive global maritime range of approximately 20,000km is further expanded by her onboard equipment for ship-to-shore operations and her ability to transport personnel via her seaplane, up to 1500km from the vessel to shore.





CQuest



Design and features cont./

- Fully equipped professional theater with full satellite communications
- Full fire suppression and control fire systems, including Low Oxygen controlled spaces for sensitive equipment and computer / server areas.
- 20 bed hospital with 5G connected operating theatre.
- Three Heated therapy pools with automatic self-cleaning system
- Multiple exercise areas including a main fitness center
- Staff and crew quarters to accommodate approximately 45 non-scientific crew.
- VIP / guest cabins with dressing rooms and full bathroom
- Doctor and scientist accommodations with in-cabin study
- Warehouses with fuel cell forklifts
- Two exterior cranes for loading and offloading cargo and the Twin Otter Seaplane
- Elevators throughout the yacht
- Scientific testing platform and or beach club at stern
- Two Large dining rooms
- Large salon room
- Large kitchen with cold rooms and large pantries, elevator connections to frozen and chilled storage spaces in the hull.
- Open plan office with various types of state-of-the-art communication technologies
- Large full beam master suite with private deck and pool forward.



Quest



GQuest

Unmatched Vessel Based Deployability & Adaptability





Quest



G-Quest Description: 14/02/2023

The Future in Research, Humanitarian Goals, and Luxury

Mission

The mission of G-Quest, a 215-meter yacht, allows its owner to oversee their philanthropic efforts while living in luxury at sea. She is designed for both humanitarian and research objectives.

The upper three decks are designated for the owner and the owner's guests. The remaining 80% of the yacht is dedicated to oceanographic research, medical research, green propulsion experimentation, and medical intervention.

G-Quest is propelled by azimuth thrusters. The thrusters receive power from the batteries. The batteries are charged by gensets, the gensets are in turn fueled by hydrogen, methanol, biodiesel, and green fuels of the future.

If chosen as a propulsion system, a thorium molten salt reactor heats up water and powers the steam turbine. The steam turbine is connected to a generator which charges the batteries and provides direct electrical power to the azimuth thrusters.

In addition, the G-Quest will be experimenting with various new battery technologies.

G-Quest Features and Accommodations

Multi-functional explorer yacht 215-meters long with a 30-meter beam

Full displacement hull

Long range, 20,000+ nautical miles

6,500 sq ft aircraft hangar for two Sikorsky S-92 VIP helicopters, electric VTOL for ship to shore transport of personnel (a Steve Kozloff Design), and various smaller helicopters.

Two Cessna Caravan Seaplanes hangered midship at the waterline. The Cessna Caravan is a practical way to resupply and transport personnel long distances. The cavernous access also offers a practical portal to remove and replace various experimental propulsion systems.

Fully equipped with state-of-the-art navigation, detection, and communications equipment.

Six fast fully electric, hydrofoil tenders by Candela.

One electric ship-to-shore landing craft for transporting vehicles and bulk freight.

Garage to accommodate and launch one U-Worx Research submarine.

Complete dive center with decompression chamber.

Three fully electric Taiga-Orca jet skis

Garage designated for two SUVs, including one mobile self-contained Nimbl overland exploration vehicle.

Full electronic and hard security measures and anti-terrorism/pirate systems with onboard close protection security officers, and armored windows.

20+ hospital beds including 5G connected robotic surgery facilities.

Complete oceanographic laboratory, medical laboratory, MRI and x-ray imaging, ophthalmology department, and dentist suite.

Beach club with full bar

Crows nest with full command and control

3,000 sq ft owner's suite located at the bow with panoramic views and large private pool.

Large spa and pool with bar and shaded lounging area on the flybridge.

Pool and shaded lounging area above the hangars aft.

At the bow is a large solarium featuring a salon/dining area with unhindered views of the sky and seascape.

The stern features a spacious dining and lounging area with panoramic windows.

A half-court basketball court on the flybridge.

When at anchor, the G-Quest will deploy wave energy mats to generate green electrical power.

The G-Quest accommodates 26 owner's guests in full luxury, plus 150 crew that includes doctors, scientists, pilots, nurses, research engineers, and the ship's operating crew.

At the stern are six free fall lifeboats and various self-inflating life raft systems as backup.





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