

GRC43m

GLOBAL RESPONSE CUTTER





ADVANCED PROVEN SOLUTIONS

The GRC43m (Global Response Cutter) affords military and government agencies a high quality executable program that will remain on schedule and perform as designed. Model and culture (Series built vessels) is the center of a highly controlled environment that leverages proven composite build processes, computer aided designs and precision tooling, resulting in an “off the shelf” vessel with extraordinary tolerances, durability and quality.



GLOBAL RESPONSE CUTTER

INDUSTRY LEADER

Shipyards was founded in 1964 and is a pioneer in the use of proven composite materials in the Marine Construction Industry. We have built and delivered over 100 vessels used in commercial applications worldwide; from high speed ferries to commercial fishing vessels and yachts. Recognized as one of the most advanced and proven builders in the world, delivering its vessels on-time, on-budget, as promised.

ADVANCED PROVEN ENGINEERING

GRC43m features a proven hull design perfectly suited for patrol duties. The hull is engineered for high performance, strength, and stability. GRC43m incorporates U.S. Coast Guard specifications and is classed ABS HSC \otimes AI \otimes AMS.

GRC43m has a 4,500 nm patrol range at 10 knots and a 32.8 knot flank speed. These qualities are the perfect balance of on-station endurance and high-speed intercept capability.

The pilothouse is designed with an unobstructed 360° field of vision for optimum situation awareness and is equipped for mission command and control. Electronics include state of the art navigation, search and communication equipment.

The stern ramp enhances mission effectiveness by allowing efficient RHIB deployment and recovery.

GRC43m multi-mission solution.





ADVANTAGE COMPOSITE

Composites are advanced materials, with proven characteristics applicable to patrol vessels used by defense and security organizations. The composite construction process, resilient material properties, and reduced lifetime maintenance of composite vessels provide distinct advantages when compared to steel or aluminum.

- **Precision Molds (composite)**—Deliver superior accuracy in tolerances and repeatable quality.
- **High Strength-to-Weight Materials (composite)**— Deliver exceptional structural integrity and resilience, FRP and carbon fiber meets ABS strength rules, while reducing weight. This affords higher speeds, longer range, and reduced fuel burn.
- **Dampening Material (composite)** — Offers superior noise and vibration reduction.
- **Insulating Material (composite)** — Delivers superior cooling and heating benefits.
- **Stealth Material (composite)** — Reduces heat, radar, acoustic, and magnetic signature.
- **Low Maintenance Material (composite)** — Does not rust or corrode, reducing life cycle costs.
- **Anti-Fatigue Properties (composite)** — Provides longer service time.

MISSION: DRUG INTERDICTION



MISSION: COASTAL SECURITY



GLOBAL RESPONSE CUTTER 43m

DIMENSIONS

Length Overall (Molded).....143'0"..... 43.60 m
Length Waterline124'5"..... 37.96 m
Beam (Molded).....26'0"..... 7.93 m
Draft (Full Load)6'11".....2.11 m

MAXIMUM SPEED

Full Load 32.4 knots
Half Load 32.8 knots

RANGE

10 knots 4,500 nm
14 knots 3,000 nm
Flank 1,025 nm
10% usable fuel remaining

TANK CAPACITIES

Fuel 13,535 USG.....51.27 m³
Fresh Water1,500 USG.....5.68 m³
Gray Water1,100 USG.....4.17 m³
Black Water540 USG.....2.05 m³

DISPLACEMENT

Full Load475,000 lbs..... 215 MT
Half Load433,000 lbs..... 196 MT
Light Ship..... 333,000 lbs..... 151 MT

OPERATION ENVIRONMENT:

Coastal and Offshore Missions

MISSION ELECTRONICS: Stabilized FLIR camera
X and S Band Radars
Communication Suite

ACCOMMODATIONS: Berthing for 24,
Mess and Galley

CLASSIFICATION: ABS HSC \exists AI \exists AMS

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