

G-MRSSV - Data Sheet

Kozloff Designs



Multi Role Spearhead Support Vessel (MRSSV)

Designer: Steve Kozloff Designs

Operational brief This new utilitarian vessel sub-class, simplifies, combines, exceeds previous classes and makes redundant, several traditional Naval Classes of vessel, whilst enhancing capability, lowering costs and providing not only seaborne attack capability and defence, but cover for expeditionary forces landing onshore too.

Builders TBA (Classified)

Operators NATO/Australia

Cost Confidential

Built N/A

Planned 24 units

Number of decks 9

Completed NIL

Active Nil

Type Expeditionary Beachhead /Transport

Hull Steel

Superstructure Steel

D. Tonnage 12,6444

Length 100.3m (WL Length 100.3m)

Beam 31.7m (WL 24.1m)

Max. Draft 6.1m

Propulsion

- Hybrid Electric
- 2 x Azimuth thrusters, 2 bow thrusters

Quarters

Crew: 50

Special Forces/Soldiers: 100* (Can accommodate a Regiment)

Flag: TBD

Performance and Capacities

Max Speed: 17.5kts

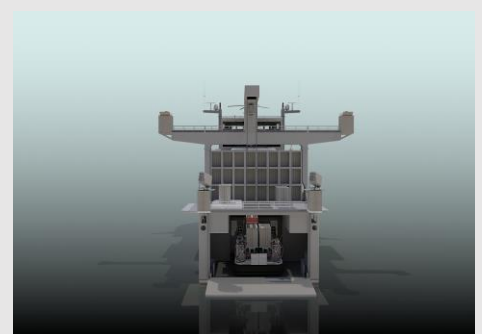
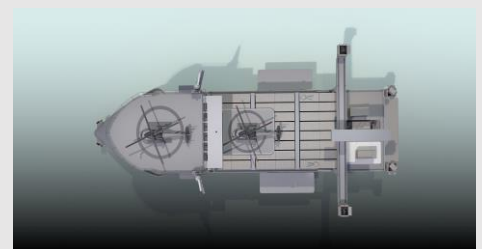
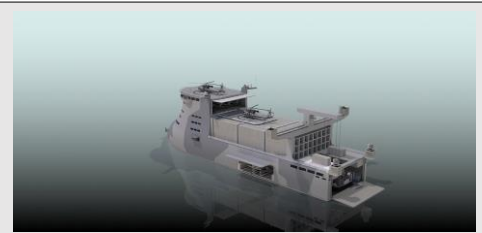
Cruising Speed: 13.9kts

Range (nm): 20000* 20,000nm (6,000km) * Unlimited* with containerised bunkers onboard.

Fuel/Energy Capacity: Various

Name: G – MRSSV

Vessel Type: EPF&A





Air Capability

Cessna Caravan Seaplanes

Two



Seahawk Helicopters

(4 Hangered, 2 external)

Four (Six*)



KZ-EVTOL

One



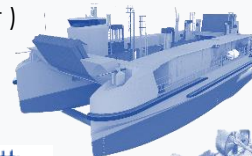
Additional Sea Capabilities

• **LCAT Mk2 landing craft**

One (Heavy duty deployment)

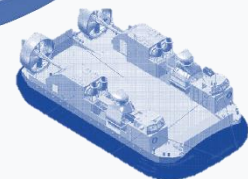
Or **Ship-to-Shore Connector (SSC)**

One (Smaller loads)



• **BlueWhale™ Autonomous Sub. or manned mini-sub.**

One (or more)



• **10m HDPE KND Containerised Attack boats**

Quantity as required



Armaments & Countermeasures

Armaments

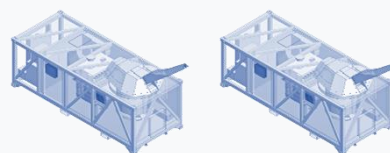
- [2 x EOS Container Based Weapon System \(CBWS\) Dillon M134D Gatling Gun.](#)
- 2 x M134 GAU-17 Mini guns, helipad mounted.



- 2 x MBDA [SIMBAD-RC Mistral Missile](#) systems



- 2 x [Patria Nemo](#) 120mm Gyro Stabilized [mortar systems](#)
 - o The vessel can carry and deploy up to **ten** systems.



Countermeasures

- [SeaSpider® by ATLAS ELEKTRONIK, anti-torpedo system.](#)





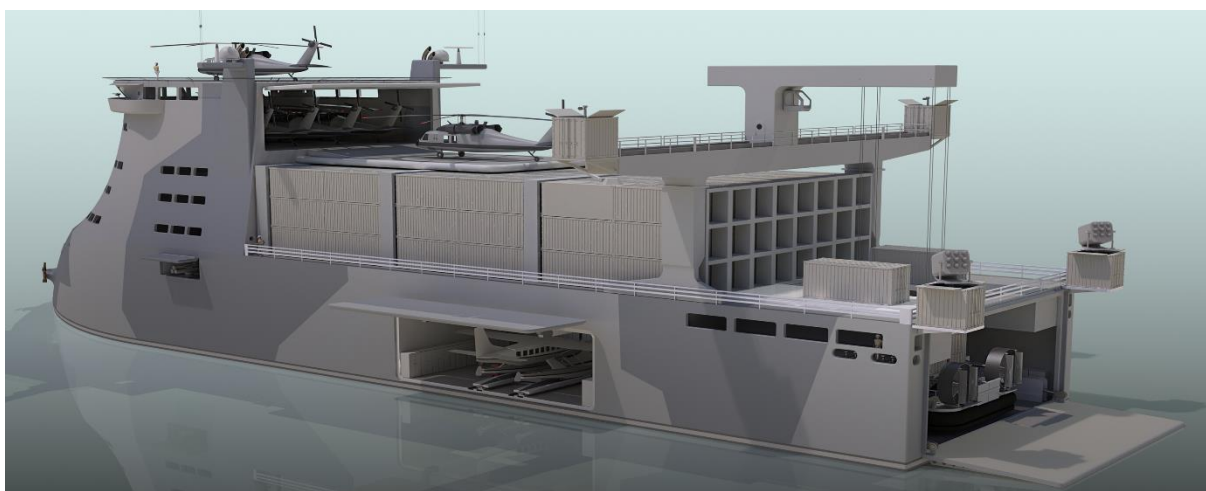
Capability and Replacement Comparison Graphic.

This vessel's unparalleled capability and adaptability provides fleet consolidation opportunities across multiple deployment strategies.

✓	Amphibious Assault Ship (LHD)		MRSSV holds one CNIM L-CAT Landing Catamaran Landing Craft in her hull.
✓	Auxiliary Oiler Replenishment (AOR)		MRSSV can accommodate any form of freight, containerised liquid, gas or bulk goods, vehicles, APC's tanks etc. She also carries significant airborne support and flexibility.
✓	Destroyer, Guided Missile (DDG)		MRSSV carries two MBDA SIMBAD-RC short-range, 'Fire & Forget', anti-air self defence MISTRAL missile systems.
✓	Frigate, Helicopter (FFH)		MRSSV carries one Seahawk fully combat ready helicopter, one Dornier Seawing (folding wing) seaplane and two E-VTOL ship to shore 4-person silent quadcopters.
✓	Landing Ship, Dock (LSD)		

The G-MRSSV features

- Multipurpose amphibious supply and assault capabilities
- Ability to load and prepare landing craft while underway at sea
- Large deployment bay for amphibious transport vehicle LCAC or LCAT
- High-performance, long-reach gantry crane with a wide arc of motion
- Onboard crane allows for quick and easy reconfiguration of containerized systems
- Amphibious seaplane hangar for two Naval Cessna Caravans (Can carry Tomahawk systems)
- Two helicopter pads that can accommodate Sikorsky SH-60 Seahawk helicopters
- Maintenance hangar that can house four Sikorsky SH-60 Seahawk helicopters when folded
- Equipped with two remotely controlled, crane mounted CBWS, Dillon M134D Gatling Guns.
- Two Containerised Kingfisher gun launched torpedo systems.
- Watertight 'wet-hatch' for deployment of a mini-submarine systems (manned or unmanned)
- Capacity of 144, 6m/20-foot containers
- Generous sorting area at the stern





Additional details about each of these features:

- The high-performance, long-reach gantry crane is a powerful tool that can be used to load and unload cargo quickly and efficiently. It's long reach that allows it to access even the most remote areas of the cargo deck, and it can move cargo at high speeds. This makes it ideal for loading and unloading large quantities of cargo, as well as for loading and preparing landing craft.
- The ability to load and prepare landing craft while underway at sea is a critical capability for amphibious assault ship.
- The ship's onboard crane allows it to quickly and easily reconfigure its containerised load to meet the needs of its mission. This is a valuable capability, as it allows the ship to be adapted to a variety of different missions including:
 - Transporting troops and equipment
 - Landing troops / SF on beaches
 - Providing support to special forces
 - Conducting humanitarian relief operations
 - Providing disaster relief
- The large deployment bay can accommodate amphibious transport vehicles (LCACs) or landing craft air cushion (LCATS). These vehicles can carry large amounts of cargo and troops, and they can be used to land troops on beaches or in other difficult-to-access areas.
- The amphibious seaplane hangar can house two Cessna Caravans. These seaplanes are relatively inexpensive to operate, making them a cost-effective option for long-range transport of personnel. The Caravans can also be used for HALO missions.
- The two helicopter pads can accommodate Sikorsky SH-60 Seahawk helicopters. These helicopters are used for a variety of missions, including:
 - Transporting troops and equipment
 - Providing medical evacuation
 - Conducting search and rescue operations
 - Providing fire support, anti-submarine operation.
- The maintenance hangar can house four Sikorsky SH-60 Seahawk helicopters when folded. This allows the helicopters to be stored and maintained on board the ship, which saves time and money. Entire containerised support team workshops and mission specific spares stores are loaded as required in very short time.
- The G-CRS is equipped with two forward-facing, top-helipad mounted M134 GAU-17 Mini guns.
- The G-MRSSV has two Mark 32 torpedo tubes. These tubes can be used to launch torpedoes against enemy vessels.
- The G-CRS has a watertight hatch that allows for the deployment of a mini-submarine for special forces missions. These submarines can be used to insert special forces troops into hostile territory or to conduct reconnaissance missions.
- The G-CRS has a capacity of 144 20-foot containers. This allows the ship to carry a large amount of cargo, which makes it ideal for support operations.
- The G-CRS also has a generous sorting area at the stern. This area can be used to sort and organize cargo, which makes it easier to load and unload the ship.

G-MRSSV - Data Sheet

Kozloff Designs



Overall, the G-MRSSV is a supremely versatile and powerful ship that can be used for a variety of missions. It is an invaluable asset to any fleet.

