

Expeditionary Sea Base (ESB)

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HIGHLY FLEXIBLE PLATFORMS

Expeditionary Sea Base (ESB) ships are highly flexible platforms that can be employed across a broad range of military operations. USS Lewis B. Puller (ESB 3) is the first ESB delivered and, along with follow-on ships Hershel "Woody" Williams (ESB 4) and Miguel Keith (ESB 5), are optimized to support a wide variety of maritime missions, including Airborne Mine Countermeasures (AMCM), Special Operations Force (SOF), and limited Crisis Response. ESBs are equipped with a four-spot flight deck and hangar and are designed around four core capabilities: aviation facilities, berthing, equipment staging support, and command and control. The ESB flight deck and hangar support H53, H60, V22 tilt-rotor, and H1 aircraft operations as well as the launch and recovery of unmanned aerial systems.

DIMENSIONS AND PERFORMANCE

- Length, Overall 239m
- Beam 50m
- Sustained Speed >15 knots
- Endurance over 9,500 NM at 15 knots

PROPULSION SYSTEM

- Twin screw diesel electric
- FM | MAN 6L48/60 Common Rail (CR) Medium-Speed Engines
- 24 MW diesel electric plant

SHIP SERVICES

- 34 berths for MSC personnel
- 250 Military Detachment berthing
- Tactical Operations and Communications Center
- Planning and Control Spaces for AMCM mission

AIRBORNE MINE COUNTERMEASURES MISSION SUPPORT

- 4 MH-53E helicopter landing spots
- Hangar area for 1 MH-53E deployed
- 7 rigid hull inflatable boats
- 4 MK 105 AMCM Sleds
- AMCM, and Explosive Ordnance Disposal (EOD) magazines

OTHER MISSION SUPPORT

- 4 helicopter/tilt rotor operating spots
- Special warfare support
- Support for a wide range of modular mission equipment, including UAV, USV, and UUV

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EXPEDITIONARY SEA BASE (ESB) MISSION



Four
Operating Spots



Mine Countermeasures



Supports SPMAGTF-CR and MV-22 ACE