



LCS FREEDOM VARIANT

FACT SHEET

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The Freedom variant of the U.S. Navy's Littoral Combat Ship (LCS) class is a high-speed, agile, shallow-draft and networked surface ship. The LCS 1 and follow-on ships (LCS 3, LCS 5, LCS 7, etc.) are open-ocean capable, but are designed to defeat growing littoral threats and provide access and dominance in the coastal water battlespace. A fast, maneuverable and networked surface combatant, LCS provides the required warfighting capabilities and operational flexibility to accomplish critical warfighting missions, including mine warfare, anti-submarine warfare and surface warfare with inherent capabilities that also support missions such as special operations and maritime interdiction.

The LCS delivers combat capability from core self-defense systems in concert with rapidly interchangeable, modular mission packages and an open architecture command and control

system. The LCS aviation facilities and watercraft launch-and-recovery capability support focused-mission packages outfitted with both manned and unmanned air, surface, and sub-surface vehicles. Reconfigurable spaces and weapons modules provide support service interfaces between mission package weapons, sensors and vehicles and the seaframe. Modularity maximizes the flexibility of LCS and enables commanders to meet changing warfare needs, while also supporting faster, easier technological updates. The LCS will be networked to share tactical information with aircraft, ships, submarines, joint and coalition units both at sea and on shore, and with LCS operating groups.

The Rolls Royce MT30 gas turbines on the Freedom variant are the largest of any surface combatant in the U.S. Navy. The flight deck is larger than those on U.S. Navy guided missile frigates, destroyers, and cruisers.



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LCS FREEDOM VARIANT SPECIFICATIONS	
Length	118.1 meters (387.6 feet)
Beam	17.6 meters (57.7 feet)
Draft	4.3 meters (14.1 feet)
Full Load Displacement Approximately	3,500 metric tons
Range	3,500 nm at 14 knots, approximately 1,000 nm at full load Sprint Speed
Top Speed	Greater than 40 knots
Watercraft Launch and Recovery	Up to sea state 4
Aircraft Launch and Recovery	Up to sea state 5
Propulsion	Combined diesel and gas turbine (CODAG) with steerable water jet propulsion
Core Crew	40 with accommodations for 75 sailors
Hull	Steel, semi-planing mono hull with aluminum superstructure
Integrated Bridge System	Fully digital nautical charts are interfaced to the ship's sensors to support safe ship operation
Core Self-Defense Suite	Includes 3-D air search radar, Rolling Airframe Missile, medium caliber gun, electro-optic/infrared gunfire control system and decoy launching system
Mission Systems	Include COMBATSS-21 combat management system, reconfigurable Mission Control Center, and open architecture total ship computing environment

The LCS Program is managed by the Littoral Combat Ship Program Office, PMS 501, Program Executive Office, Littoral Combat Ships (PEO LCS). Lockheed Martin Corporation is the prime contractor for the LCS 1, LCS 3, LCS 5, LCS 7 and follow-on ships with Marinette Marine as the shipbuilder.

