



USS MASON (DDG 87)

Guided Missile Destroyer

Homeport: Norfolk, Virginia

www.mason.navy.mil



MASON's mission is to be prepared to conduct prompt, sustained combat operations at sea in support of national policy. She must as well be capable of operating within an Aircraft Carrier Battle Group (CVBG) in extreme threat environments, providing primary anti-air protection for the ships within that Battle Group. To accomplish this, MASON utilizes her various sensors to detect, classify and track hundreds of potential targets simultaneously in the air, on the surface and under the sea. To engage and destroy hostile targets, the ship is outfitted with the most lethal arsenal ever put to sea consisting of surface-to-air and surface-to-surface missiles, torpedoes, 5" gun, rapid fire close-in-weapon systems, and electronic jammers and decoys.

MASON's Combat System is the most technically advanced in the world, capable of projecting power both at sea and ashore with precision and deadly accuracy. A key component to the ship's ability to perform her mission is the Aegis Weapon System (AWS). AWS consists of a number of sub-systems which include the ship's primary air radar, the AN/SPY1D, and the Standard Missile (SM). These two components, along with 7 other fire control, command and decision, and training elements compose the most effective anti-air warfare system in the world. Capable of tracking hundreds of contacts simultaneously, the AWS can engage multiple threats at maximum range without any operator intervention. In addition to the AWS, MASON is outfitted with a single 5"/54 caliber dual purpose gun mount able to accurately fire 16-20 rounds a minute to ranges in excess of 13 miles. For point defense, MASON's two 20mm Close-in Weapon Systems (CIWS) are capable of firing 4500 rounds a minute to exasperate and extinguish an inbound threat at close range. The ship's Sonar Suite is capable of detecting, tracking, identifying, and engaging multiple submerged threats independent from other non-related engagements being conducted by the rest of the Combat System. All this firepower is useless though without the ability to take the fight to the enemy; therefore, MASON is powered and driven by the most sophisticated engineering plant afloat. At the touch of a button, all four of the ship's General Electric LM2500 Gas Turbine Engines come to life, providing the ship with over 100,000 shp. Three smaller, Allison 501-K34 Gas Turbine Generators provide the ship with enough electrical power to operate everything onboard from the AN/SPY-1D radar, to the electrical meat slicer in the galley. Incorporated in the engineering plant is a complex damage control system which utilizes automation and human operators to maintain a safe ship and manage damage control assets.

MASON incorporates a helicopter hangar and upgraded baseline 6.1 Aegis Combat System into the original design of ARLEIGH BURKE class guided missile destroyers. Other alterations include: raised aft facing AN/SPY-1D arrays, increased missile capacity from 90 to 96 missiles, inclusion of a Recovery, Assist, Securing, and Traversing (RAST) System to assist in the recovery of SH-60 helicopters during inclement weather and high sea states, Kingfisher Mine Detection System, and the addition of a stern sheet trim tab hydrostatically designed to allow MASON to travel at higher speeds with less engineering plant output.

It is the Officers and Crew of MASON which make her the finest ship in the Fleet. The crew is comprised of highly trained, highly motivated professionals committed to excellence and devoted to serving their country. As a unified team, the Officers and Crew of the MASON are ready now to meet any threat to our nation by another unfortunate enough to dare our skill, conviction, and resolve.

SHIP'S SPECIFICATIONS:

GENERAL

Length - 509.7 feet
Beam (Maximum)- 66.7 feet
Speed: 32+ knots
Draft (Navigational)- 30.9 feet
Displacement- 9,180 tons full load
Complement- 25 Officers/300 Enlisted

SENSORS

AN/SPY-1D 3-D Search/Track Radar
AN/SPS-67(V) Surface Search Radar
AN/SPS-64(V) Surface Search Radar
AN/SQS-53C(V) Hull Mounted Radar
AN/SQS-19(V) Tactical Towed Array Sonar
AN/SQQ-28(V) LAMPS III Shipboard
Electronics ESM/ECM
AN/SLQ-32(V)3
AN/SLQ-25A NIXIE Torpedo
Countermeasures
MK36 MOD 6 Decoy Launching System

WEAPONS

5"/54 caliber Gun Mount, Forward Vertical
Launch System (VLS)-Forward and Aft (96
cells)
Phalanx Close In Weapons System (CIWS)
Forward and Aft
Torpedo Launchers Midships-Port and
Starboard
4 50-caliber mounts

AIRCRAFT

ENGINEERING

Propulsion: 4 General Electric LM2500 Marine
Gas Turbine Engines with 100,000 Shaft
Horsepower
Electrical:
Services: