



Machine Gun System

Mk 38 Mod 3

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The Mk 38 Mod 3 Machine Gun System (MGS) from BAE Systems: Setting the standard for shipboard defense against small, fast, and agile surface threats. Now equipped with both the 25mm M242 Bushmaster main gun and option for a coaxially-mounted 7.62mm Mk 52 Mod 0 automatic chain gun to cover all mission needs, the stabilized, remotely controlled Mk 38 MGS further enhance the proven capability in defending against multiple surface threats.



The Mk 38 Mod 3 MGS incorporates the service-proven TOPLITE electro-optical sensor integrated with a state-of-the-art fire control system to optimize effective engagement of enemy targets in all weather conditions, day or night.

Weaponry – The main weapon is the proven 25mm M242 Bushmaster cannon with 2.5-km range and selectable rates of fire. The co-axially mounted 7.62mm chain gun upgrade provides the capability to accurately engage threats while in port and/or close to port.

Lethality – The Mk 38 MGS fires all U.S. NATO Standard 25-mm by 137mm ammunition with adjustable rates of fire up to 180 rounds per minute and 168 ready rounds on-mount. The Mk 38 MGS can also fire the co-axially mounted 7.62mm gun with adjustable burst times with a rate of fire of 570 rpm with up to 750 ready rounds on-mount.

Command and Control – The integrated fire control system provides independent gun and TOPLITE gimbil stabilization and superior optics including the forward looking infrared radar with three fields-of-view, a low

contrast, low light level color day camera, and an eye-safe laser range finder.

Survivability – The Mk 38 MGS provides for crew-safe conditions with a remote operation console located in the Combat Information Center, on the bridge, or other protected ship areas.

Adaptability – The Mk 38 MGS is the U.S. Navy's ORDALT choice to upgrade the Mk 38 Mod 0/1 25-mm machine gun. The system can be applied to a wide range of different ship classes and platform designs of 50 tons or greater displacement.

Specifications

Weight (with gun, w/o ammo)	2,300 lbs/1,042 kg
Weapon station	± 15° to ± 165° adjustable to any value in range
Train Elevation	-20° to +40°
Electro-Optical Fire Control System (relative to mount)	
Train Elevation	± 165° 20° to +85°
Gun type	25-mm M242 Bushmaster, 7.62-mm Chain Gun Mk52 Mod 0
Ammunition feed	Dual feed for main gun, single feed for the 7.62-mm gun
Ammunition capacity	168 ready rounds main gun, 750 rounds for 7.62-mm gun
Rate of fire	5 rates from single to 180 rpm max for main gun and up to 570 rpm for 7.62-mm gun
Personnel requirements	
Remote Ammunition loading	1 2
Operability tests and scheduled maintenance	
(average daily)	6 minutes
Ammunition reloading time	5 minutes
Availability (inherent/predicted)	99.9%*

*Based on mission-critical MTBF of 1,441 hours and MTTR of 1.2 hours

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