



Mk 38 Mod 2 Machine Gun System

The Mk 38 Mod 2 Machine Gun System (MGS) from BAE Systems sets the standard for shipboard defense against small, fast, and agile surface threats. With system variants deployed worldwide, the stabilized, remote control Mk 38 Mod 2 MGS has been proven capable in defending against multiple surface threats.

The Mk 38 Mod 2 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 Mk 38 Mod 2 MGS main weapon is the proven M242 NATO standard auto cannon with 2.5-km range and selectable rates of fire.

Lethality – The M242 fires all U.S. Navy approved 25mm ammunition at up to 180 rounds per minute, with the Mk 38 Mod 2 MGS providing up to 168 ready rounds on-mount.

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

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

Survivability – The Mk 38 Mod 2 MGS provides for crew-safe conditions with a remote operation console located in the Combat Information Center or in other protected ship structures.

Adaptability – The enhanced Mk 38 Mod 2 MGS is the U.S. Navy's ORDALT choice to upgrade the Mk 38 Mod 0/1 25mm machine gun.



The system can be applied to a wide range of different ship classes and platform designs of 50 tons or greater displacement.

Near term product upgrades include larger magazine, 30mm cannon, advanced optics, and integration of laser effects.



Mk 38 Mod 2 Specifications

Weight (with gun, w/o ammo)	2,300 lbs/1,042 kg
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Weapon station

Train	$\pm 15^\circ$ to $\pm 165^\circ$ adjustable to any value in range
Elevation	-20° to $+40^\circ$

Electro-Optical Fire Control System (relative to mount)

Train	$\pm 165^\circ$
Elevation	-20° to $+85^\circ$

Gun type	25mm M242
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Ammunition feed	Dual
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Ammunition capacity	168 ready rounds
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Rate of fire	5 rates from single to 180 rpm max
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Personnel requirements

Remote	1
Ammunition loading	2

Operability tests and scheduled maintenance (average daily)	6 minutes
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Ammunition reloading time	5 minutes
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Availability (inherent/predicted)	99.9%*
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