

BAE SYSTEMS

INSPIRED WORK

Ordnance for Rapid Kill of Attack Craft (ORKA)

Mk295 Mod 1 57mm Guided Projectile

BAE Systems is meeting the urgent need for precise and extended range all weather engagement of surface and air threats with the ORKA - Mk295 Mod 1 57mm Guided Projectile. The Mk295 Mod 1 enhances the in-service Mk295 Mod 0 (3P) round by adding a guidance capability to the already highly-lethal projectile.



The Mk295 Mod 1 incorporates a reliable and affordable 4-canard actuation system, to guide the round; a multi-mode imaging seeker; and a high explosive warhead to enable single shot defeat of Anti-Surface Warfare (ASuW) and Anti-Aircraft Warfare (AAW) threats.

Depth of Magazine – The 57mm Mk110 Gun System is capable of delivering the ORKA at a maximum rate of 220 rounds per minute to 10km.

Precision and Lethality – The warhead delivers 1.4kg of lethal steel fragments

in reaction to over 200 grams of PBX-explosive. Accurate to within one meter, the warhead achieves devastating effects against a wide range of ASuW and AAW target types in any selected mode of fuze and seeker operation.

Multiple Fuzing Modes – Fuzing modes include timed, proximity, and point detonation. The projectile's multi-mode imaging seeker is capable of detecting a laser designator and autonomously identifying specific ASuW and AAW targets.

Imaging Seeker Modes of Operation



1. Laser designation to weapon impact



2. Laser designation then handoff to imager



3. Laser cueing of imager offset from target



4. Autonomous imaging guidance to impact

Specifications

Nomenclature	Mk295-Mod1
Muzzle Velocity	740 m/sec
Maximum Range	10 km
HE Fill Weight	211.9 g
Flight Weight	3.9 kg
Rate of Fire	220 rpm
Fuzing Modes	Timed, Proximity, and Point Detonation
Seeker Modes	Laser designator detection, Autonomous target detection
Shots per moving target	~1 shot per kill

The ORKA projectile is compatible with the 57mm Mk110 Naval Gun.



BAE Systems, Inc.
Platforms & Services
www.baesystems.com

For more information contact
platforms.services@baesystems.com

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