

MARINE CORPS WARFIGHTING LABORATORY

The **MK-47 Automatic Lightweight Grenade Launcher (ALGL)** is a lightweight, portable, 40mm grenade machine gun with an advanced sight and fire control system that combine to give a gunner a high probability of first round target hits.

Background: The Marine Corps has a requirement for a 40mm grenade launcher that combines the firepower and lethality inherent to a heavy machine gun while preserving, as much as possible, the mobility and maneuverability of foot-mobile, infantry forces. Currently, the Marine Corps holds MK-19 40mm grenade launchers in its inventory. While doctrinally employable in offensive and defensive operations, the weight of the MK-19 (140lbs) and its ammunition restricts its use in the offense to when it can be mounted on a vehicle. The Marine Corps Warfighting Lab is conducting an examination of state of the art heavy machine gun technology. As a part of this overall effort, MCWL will be experimenting to determine if the MK-47's total system weight of 85lbs combined with increased accuracy and lethality (with a potential for a commensurate reduction in ammunition load) make this technology appropriate for consideration.

Description:

- Prototype 40-mm grenade machine gun that weighs 85lbs compared to 140 lbs for the MK19
- Low-recoil weapon system
- Equipped with a computer processor and laser range finder that provide a fire solution for day/night operations in all weather
- Quick detach barrel for ease of transport

AUTOMATIC LIGHTWEIGHT GRENADE LAUNCHER

fact sheet



- Fires all standard NATO 40 mm linked grenades
- Fires from an advanced, lightweight tripod and universal vehicle mount
- Programmable airburst ammunition

Deliverable Product: Recommendation concerning the suitability of the lightweight design, programmable video sight system, and airburst munitions technology for the next generation of Marine Corps Heavy Machine Guns.

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3255 MEYERS AVENUE
QUANTICO, VA 22134
WWW.MCWL.QUANTICO.USMC.MIL