



40×53mm ENHANCED VELOCITY (1200 FEET PER SECOND)

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40x53mm Enhanced velocity (1200 feet per second), Modified point detonating with counter UAV fragmentation (steel fragmentation, not armor piercing). This round is our Enhanced 40x53mm with 50% faster velocity, which means shorter flight time and less opportunity for the target to move out of position.

Our round utilizes a proprietary design to enhance the lethality against small and medium size UAV's by modifying the point of detonation, the size and shape of the explosive charge, and additional fragmentation material to create a complete sphere of fragmentation.

As a point detonation round with a m549A1 fuze, it requires impacting a target to initiate detonation. This round is also a Anti-Personnel effective against enemies hiding behind defilades.



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40×53mm Enhanced Velocity

SPECIFICATIONS

Caliber	40×53mm (high-velocity grenade)
Compatible systems	MK47, MK19, RM MGL — no modification required
Cartridge Case	M169 40x53mm
Fuze /MFG	M549A1
Effective Range	2200 meters
Armor Penetration	1200 ft. Second (+50% vs. baseline [enhanced projectile])
Velocity	MIL-DLT-50863
Specification	32 linked cartridges in a PA-120 Steel Can
Packaging	M162A2 (Pivot or Standard)
Link	Comp A5
Explosive Fill	76mm Steel

KEY DIFFERENTIATORS

Enhanced velocity. 1200 Feet per Second. (50% faster than standard round)

Weapon-system Agnostic. Fields through MK47, MK19, and RM MGL with no modification and no in-barrel induction or communication required.

Higher velocity = smaller evasion window. 50% velocity increase shrinks the distance and time between firing and detonation, improving lethality.

MIL-STD-class safety. Mechanical escapement with dual ETIs; 35 m minimum arming distance.

Proprietary P(k) enhancements. Additional enhancements raise kill-per-engagement probability (details held).

Domestic production base. Built on existing 40×53mm / M549A1 fuze line. 100,000 units/month current capacity; robotics-integrated; domestic supply chain.