



0.50 CALIBER RRA 12.7 mm

Ball and Tracer - Reduced Range Ammunition



General Dynamics Ordnance and Tactical Systems-Canada has more than 100 years experience in the manufacture of small caliber ammunition, including ball, tracer, blank and armor-piercing cartridges. The 0.50 caliber (12.7 mm) RRA Ball and Tracer ammunition provide the same ballistic characteristics of full range operational ammunition up to 1000 m. The tracer version is a ballistic match to the ball round.

The 0.50 caliber RRA projectile has a steel core with rearward fins, which is inserted into a gilding metal jacket to minimize barrel wear. It is designed to function in M2HB and QCB machine guns, and most common sniper rifles at extreme temperatures, without any auxiliary equipment or modifications.



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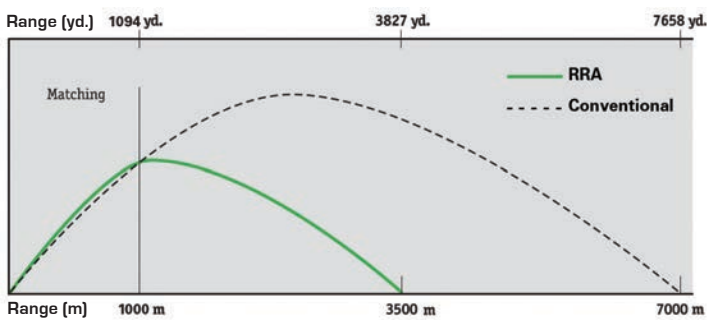


The 0.50 caliber RRA has a maximum range of 3,500 m (3,827 yd.) roughly 50% shorter than that of conventional service ammunition see Figure 2. This is a major advantage when training near urban areas, since users can fire the 0.50 caliber RRA on a 7.62 mm range, without changing the maximum distance of the safety template.

Advantages

- Trajectory match within 1 mil with M33 bullets at 1000 m
- 50% shorter range for reduced safety template
- Realistic training scenarios in urban areas
- Tracer visible to 1000 m
- Elimination of environmental contamination
- Reduced range maintenance

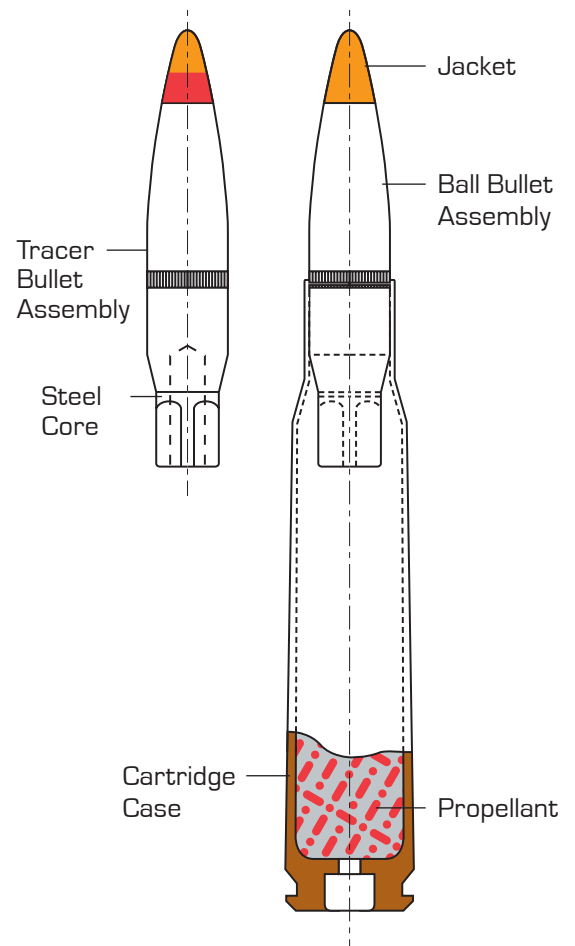
Figure 2
Maximum range of the 0.50 caliber RRA vs. conventional projectiles



Technical Data

Cartridge Length	Approx. 13.7 cm (5.4 in.)
Bullet Weight	Approx. 45 g (644 grains)
Watertightness	Meets NATO waterproof criteria
Noise and recoil	Replicates service M33 ball ammunition
Accuracy at 550m (600yd)*	
0.50 cal. RRA Ball	300 mm (11.8 in.)
0.50 cal. RRA Tracer	400 mm (15.7 in.)
Max. chamber pressure at 21°C (68°F)	< 450 Mpa (65,267 Psi)
Cyclic rate in M2HB MG	Between 450 and 600 shots/minute

* Maximum average vertical and horizontal standard deviation



GENERAL DYNAMICS
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