



HVP

Hypervelocity Projectile

Under a contract through the U.S. Office of Naval Research (ONR), BAE Systems is developing a HVP for the U.S. Armed Forces and its allies.

This projectile will provide lethality and performance enhancements to current and future gun systems and allow for technological growth while reducing development, production, and total ownership costs.

The HVP is a next-generation, common, low drag, guided projectile capable of executing multiple missions for a

number of gun systems, such as the Navy 5-Inch; Navy, Marine Corps, and Army 155mm systems; and future electromagnetic (EM) railguns. Types of missions performed will depend on the gun system and platform, but range from Naval Surface Fire, to Cruise and Ballistic Missile Defense, Anti-Surface Warfare and other future Naval mission areas.



The HVP's low drag aerodynamic design enables high-velocity, maneuverability, and decreased time-to-target. These attributes, coupled with accurate guidance electronics, provide low-cost mission effectiveness against current threats and the ability to adapt to air and surface threats of the future.

The high-velocity compact design relieves the need for a rocket motor to extend gun range. Firing smaller, more accurate rounds decreases the likelihood for collateral damage and provides for deeper magazines and improved shipboard safety.



Specifications

Compatible with Mk 45, Advanced Gun System (AGS),
155mm Tube Artillery, EM Railgun

Length

Integrated Launch Package	26 inches
Flight Body	24 inches

Weight

Integrated Launch Package	40 lbs
Flight Body	28 lbs

Payload

15 lbs

Range

- > 50 nmi (93 km) from Mk 45 Mod 4
- > 40 nmi (74 km) from Mk 45 Mod 2
- > 70 nmi (130 km) from AGS
- > 43 nmi (80 km) from 155mm Tube Artillery
- > 100 nmi (185 km) from EM Railgun

Maximum rate of fire

Mk 45	20 rounds per minute
AGS	10 rounds per minute
155mm Tube Artillery	6 rounds per minute
EM Railgun	10 rounds per minute



5" Compatible HVP



155mm Compatible HVP



EM Railgun Compatible HVP

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