The next generation RAM rocket motors, designed and manufactured by Northrop Grumman, provide high power capabilities that contribute to the Rolling Airframe Missile (RAM) Guided Weapon System’s increased maneuverability, improved effective range andInsensitive Munitions (IM) capability.

Application
Orbital ATK’s high performance rocket motor propels the U.S. Navy’s RAM Guided Weapon System. RAM is a supersonic, lightweight, quick-reaction, fire-and-forget missile providing defense against anti-ship cruise missiles, helicopters and airborne threats, and hostile surface craft.

Qualification and Production Data
• Successfully qualified – 2011
• Low rate initial production – 2013
• Full rate production deliveries – 2015

Product Features and Benefits
• Extended range
• Adapts to standard 5-in. missile
• Affordable insensitive munitions (IM) features
• High energy reduced smoke propellant
• Missile-level hardware assembly
Specifications

Technical Data
Weight: 116 lb (52 kg)
Length: 71 in (1803.4 mm)
Diameter: 6.3 in (160.02 mm)
Adapts to standard 5-in missile
Case: Graphite composite with Kevlar® overwrap
Insulator: EPDM (fiber filled)
Propellant: Reduced smoke hydroxyl-terminated polybutadiene (HTPB)
Igniter: BKN03

Performance Data
Temperature: Operating: -18°F to +121°F
(-28°C to +49°C)
Storage: -40°F to +180°F
(-40°C to +71°C)

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