

Ramjet Propulsion

Northrop Grumman's Missile Products business unit is pioneering air-breathing propulsion systems to deliver high supersonic propulsion speeds for air-launched and ground-launched weapons applications. Tailored to the mission, a solid fuel-based ramjet propulsion system allows for a powerful, steady and more efficient package and ability to withstand higher temperatures, while a liquid fuel-based ramjet propulsion system offers the ability to be ignited and shut off with precise thrust control.

Missions We Support

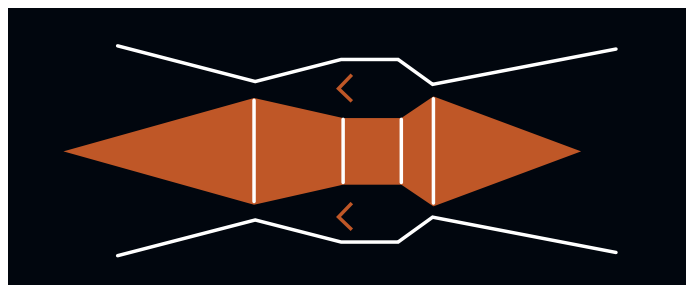
- Long-range precision fires
- Air-to-air and ground-launched extended range missions
- Air-to-ground extended range missions

Experience

- >250 ground tests

Our Advanced Weapons Edge

- More than 2,100 acres of facilities provides advanced propulsion manufacturing, development and testing for propulsion (including high performance solid propellant boosters, controllable-thrust propulsion, and hypersonic ramjet and scramjet propulsion systems), and electronic subsystems for thrust vectoring and attitude control systems
- Only defense company with integrated fuze and warhead design to maximize effectiveness and performance
- In-house aerothermal testing up to Mach speeds



Features

Northrop Grumman brings together technology, capabilities, and existing and new facilities to design, test and produce ramjet propulsion systems.

Benefits

- Affordable
- Extreme range extension
- Small form factor



Long Flight Times



Platform or Ground Launched



Limited Volume Constraints



Supersonic Speeds





For more information, please contact:

Northrop Grumman
missileproducts@ngc.com