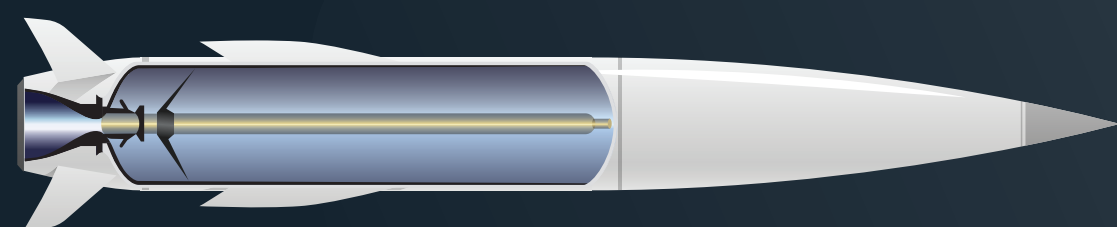


HOW SOLID ROCKET MOTORS WORK

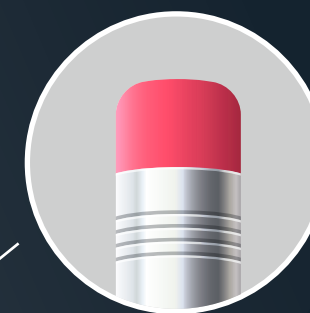
L3Harris solid rocket motors incorporate advanced technologies and materials, including next-generation propellants and lightweight motor cases, which improve performance and lower costs.



The propellant contains both fuel and oxidizer, so these motors can operate in the vacuum of space.

Igniter

An electrical signal is sent to the igniter, creating a flame that ignites the main propellant grain.



Propellant Grain

BAKED TO A PENCIL-ERASER CONSISTENCY
A mixture of fuel and oxidizer that is poured into a case and cured.

Motor Case

The body of the missile acts as a pressure vessel for the combustion chamber.

Combustion Chamber

As the propellant grain burns, it produces high temperature combustion gases.

Nozzle

The combustion gases are accelerated through a nozzle, generating thrust to power a missile or rocket through the air or into space.

Proven Propulsion. Fueled by Innovation.

© 2024 L3Harris Technologies, Inc. | 07/2024 | L26263
NON-EXPORT CONTROLLED: THIS DOCUMENT CONSISTS OF INFORMATION THAT IS NOT DEFINED
AS CONTROLLED TECHNICAL DATA UNDER ITAR PART 120.33 OR TECHNOLOGY UNDER EAR PART 772.

