

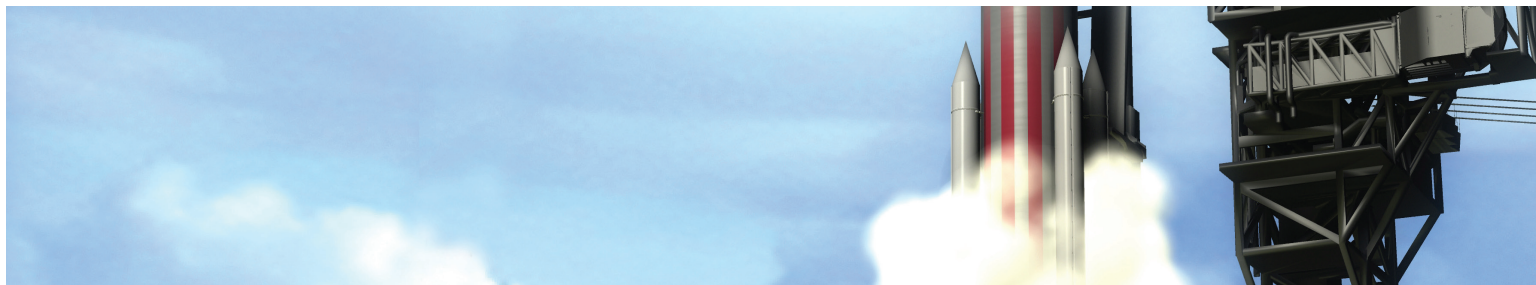


America's Ride to Space



# VULCAN CENTAUR

HIGH EFFICIENCY, HIGH PERFORMANCE, HIGH CAPABILITY



# VULCAN CENTAUR

## UNLEASHING MANKIND'S POTENTIAL IN SPACE

The Vulcan Centaur rocket design leverages the proven success of the Delta IV and Atlas V launch vehicles while introducing new technologies and innovative features which will ensure a reliable and affordable space launch service along with engines developed and manufactured in the United States. Vulcan Centaur provides a path to replacement of the current fleet of Delta IV and Atlas V vehicles and will service a diverse range of markets including commercial, civil, science, crew, cargo and national security space customers.

## INNOVATIVE DESIGN APPROACH AND AMERICAN POWER

United Launch Alliance (ULA) successfully completed the Preliminary Design Review (PDR) for the Vulcan Centaur launch vehicle with dual Blue Origin BE-4 engines. The PDR, a major milestone in development of the Vulcan Centaur launch vehicle, confirms that the design meets the requirements for

the diverse set of missions it will support. Innovative system design solutions are generated through the direct involvement of seasoned production and launch experts early in the design process.

Vulcan Centaur includes options for two payload fairing configurations—our traditional 5.4-meter payload fairing or a new 4.4-meter payload fairing option. The 4-meter vehicle configuration will accommodate up to four Orbital ATK solid rocket boosters while the 5-meter vehicle configuration accommodates up to six. The solid rocket boosters will provide more operational capability and launch vehicle performance than ever—eventually leading to a single core Vulcan ACES vehicle.

## STRATEGIC PRODUCTION AND LAUNCH PROCESSING



The Vulcan Centaur rocket will be built at ULA's world-class production facility in Decatur, Alabama. We welcome our partners at RUAG Space into our facility in Decatur, enabling a streamlined and cost-effective model for the production of the composite structures on Vulcan Centaur.



Vulcan Centaur will launch from Space Launch

Complex-41 on the East Coast and Space Launch Complex-3E on the West Coast. On the East Coast, Vulcan Centaur incorporates the use of a Mobile Launch Platform, allowing for concurrent operations of two launch vehicles from a single launch pad and ensuring the on time delivery of all Atlas V missions while fielding Vulcan Centaur.

