



ATLAS V

Since 1957, the Atlas rocket has been an integral part of America's space program, supporting national defense, launching Mercury astronauts to orbit and sending spacecraft to the farthest reaches of the solar system. Over the years, the Atlas booster has undergone a series of continuous improvements, culminating in the Atlas V with its modular design approach to meet specific customer requirements. The Atlas V consists of a common core booster powered by an RD-180 engine, the high-energy Centaur upper stage powered by an RL10 engine and either a 4-meter (400 series) or a 5-meter-diameter (500 series) payload fairing. For additional power at liftoff, up to three solid rocket boosters (SRBs) can be added to the Atlas V 400 series while the 500 series can support up to five SRBs. Flexibility and reliability are the hallmarks of the Atlas V system, making it the launch vehicle of choice for the full range of customer requirements.



DELTA IV HEAVY

For 60 years, the Delta family of launch vehicles has achieved unparalleled success in providing access to space for our Department of Defense, NASA and commercial customers. From the earliest Delta rockets to the industry workhorse Delta II, continual upgrades and improvements have led to the Delta IV Heavy, the world's proven heavy lifter. The Delta IV Heavy consists of three common booster cores, each powered by an RS-68A engine, and the Delta Cryogenic Second Stage powered by an RL10 engine. A 5.4-meter-diameter payload fairing completes the stack. With a commitment to mission success, the Delta IV Heavy continues its legacy of launching our nation's mission-critical national security payloads.



VULCAN CENTAUR

Leveraging the proven processes, technology and expertise of Atlas and Delta, the Vulcan Centaur rocket introduces new technologies and innovative features to create the highest value launch service with optimal performance to meet the full range of mission requirements. Vulcan Centaur consists of a single booster stage powered by a pair of BE-4 engines, the high-energy Centaur upper stage powered by two RL10 engines and a 5.4-meter-diameter payload fairing. For additional power at liftoff, up to six solid rocket boosters can be added to the Vulcan Centaur rocket. By making launch more affordable, Vulcan Centaur opens up new opportunities for space capabilities, offering unprecedented flexibility in a single system. From low-Earth orbit to Pluto, the single-core Vulcan Centaur does it all.



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