



Delta IV
ULA—One Team for Assured Access to Space

Delta IV

The 21st Century Launch Solution

Developed in partnership with the U.S. Air Force (USAF) Evolved Expendable Launch Vehicle (EELV) program, the Delta IV family of launch vehicles continues to fulfill U.S. government requirements for access to space. Delta IV is the

50-Year Delta Heritage

Since 1957, the Delta rocket, and its predecessor Thor, have carried satellites into orbit that have brought our world closer together and helped deepen our understanding of the universe. Building on its heritage, the Delta rocket continues to evolve to meet customer needs.

most advanced expendable launch system in the Delta family, combining design simplicity, manufacturing efficiency, and streamlined mission and vehicle integration to meet customer requirements.

Flight-Proven Capability

Since its first launch in 2002, the Delta IV has successfully demonstrated its ability to launch high-priority USAF, National Reconnaissance

Office (NRO), NASA, and commercial payloads to orbit. With both East- and West-Coast launch pads operational, every Delta IV configuration is available to service the requirements of current and future satellite programs.

A Range of Solutions Supports Assured Access to Space

The Delta IV family of launch vehicles offers:

- Commonality in the common booster core, built in a factory equipped with state-of-the-art manufacturing techniques
- A Pratt & Whitney Rocketdyne RS-68 first-stage engine, designed with reduced complexity and costs, utilizing liquid oxygen/liquid hydrogen propellants for high performance
- Use of proven heritage hardware, software, and processes from Delta II, the industry workhorse
- Efficient launch site processing, with off-pad horizontal integration of the vehicle and parallel processing of the payload
- Multiple low-risk enhancements available to more than double current maximum capability to low-Earth orbit

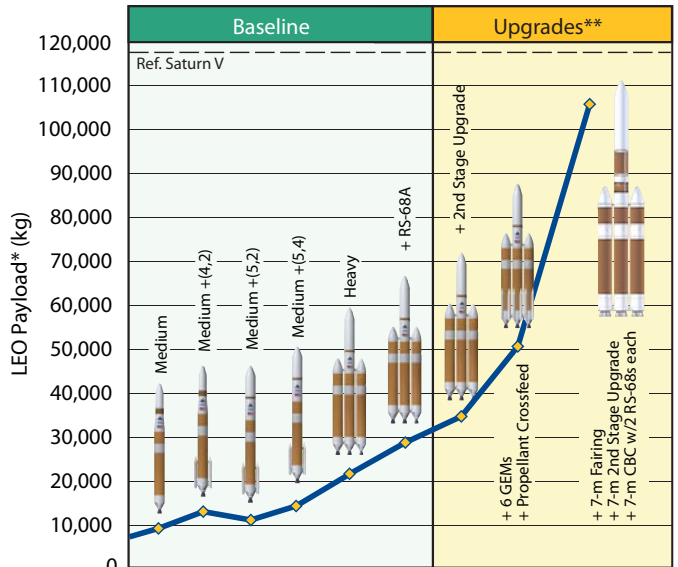
Delta IV Family



	Medium	M+(4,2)	M+(5,4)	Heavy
GTO	4,300 kg (9,480 lb)	6,030 kg (13,290 lb)	7,020 kg (15,470 lb)	12,980 kg (28,620 lb)
LEO	9,150 kg (20,170 lb)	12,240 kg (26,980 lb)	13,360 kg (29,450 lb)	22,560 kg (49,740 lb)

GTO (Geosynchronous Transfer Orbit): 35,786 x 185 km (19,323 x 100 nmi) at 27°
LEO (Low-Earth Orbit): 407 km (220 nmi) circular at 28.7°

Delta IV Performance & Growth Options



* Ref orbit: 407-km (220 nmi) circular at 28.7°

** Requires modifications to existing pad or a new pad