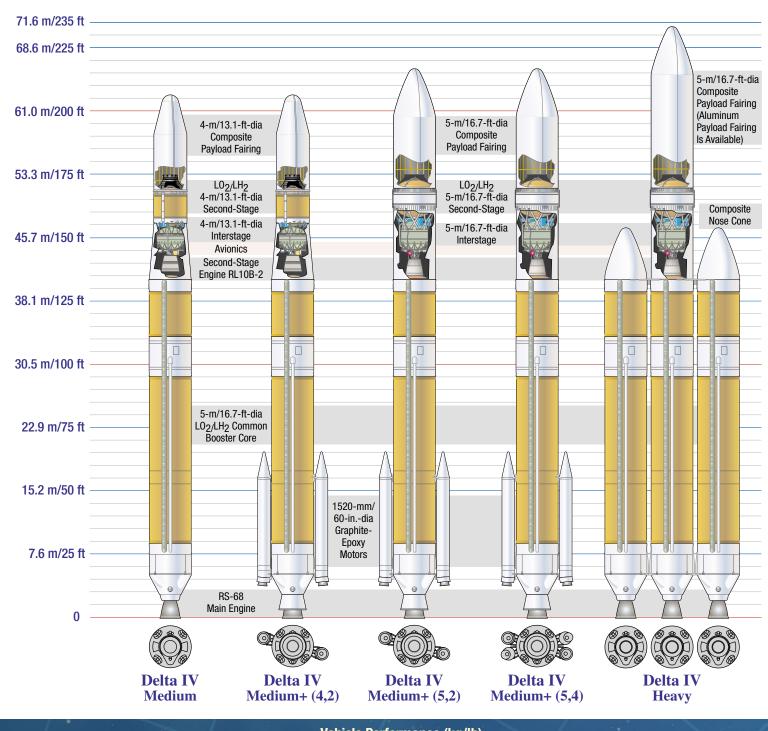




# Delta IV Technical Summary

Delta Launch Vehicles





The Contract of the Contract o	Vehicle Performance (kg/lb)				
1,138/2,508	2,036/4,489	1,686/3,717	2,786/6,142	6,276/13,837	
4,231/9,327	5,941/13,098	4,869/10,733	6,822/15,039	12,757/28,124	
9,106/20,075	12,300/27,116	10,616/23,403	13,869/30,575	21,892/48,264	
8,501/18,741	11,455/25,254	9,782/21,565	12,894/28,425	21,892/48,264	
2,347/5,173	3,465/7,640	2,743/6,047	3,792/8,361	8,005/17,648	
2,996/6,605	4,271/9,417	3,466/7,642	4,669/10,294	9,588/21,138	
3,132/6,905	4,445/9,798	3,623/7,987	4,858/10,709	9,956/21,949	
	4,231/9,327 9,106/20,075 8,501/18,741 2,347/5,173 2,996/6,605	1,138/2,508 2,036/4,489   4,231/9,327 5,941/13,098   9,106/20,075 12,300/27,116   8,501/18,741 11,455/25,254   2,347/5,173 3,465/7,640   2,996/6,605 4,271/9,417	1,138/2,508 2,036/4,489 1,686/3,717   4,231/9,327 5,941/13,098 4,869/10,733   9,106/20,075 12,300/27,116 10,616/23,403   8,501/18,741 11,455/25,254 9,782/21,565   2,347/5,173 3,465/7,640 2,743/6,047   2,996/6,605 4,271/9,417 3,466/7,642	1,138/2,508 2,036/4,489 1,686/3,717 2,786/6,142   4,231/9,327 5,941/13,098 4,869/10,733 6,822/15,039   9,106/20,075 12,300/27,116 10,616/23,403 13,869/30,575   8,501/18,741 11,455/25,254 9,782/21,565 12,894/28,425   2,347/5,173 3,465/7,640 2,743/6,047 3,792/8,361   2,996/6,605 4,271/9,417 3,466/7,642 4,669/10,294	

#### **Existing Capabilities Growth Options** 19.8 m 65.0 ft Negotiable envelope below separation plane 4292 19.1 m 62.7 ft 19.1 m 62.7 ft 4727 186.1 4727 169.0 <u>19.1 m</u> 4727 186.1 1448 dia 1322 1322 dia 1322 dia 186.1 62.7 ft 4572 4572 14.3 m 47.0 ft 180.0 180.0 4864 4727 dia dia 1322 6064 238.7 186.1 11.7 m Sep Plane 38.5 ft 4526 178.2 4572 4572 Sep 180.0 180.0 180.0 Plane dia dia dia 10988 12192 480.0 432.6 1038 40.9 dia 6439 5408 253.5 40.9 4000 181.3 3406 134.1 157.5 4000 Standard dia 157.5 Sep Sep Sep Interface Sep Sep dia Plane Plane Plane Plane Plane Plane (1194-4 PAF) (1194-5 PAF) (1194-5 PAF) (4394-5 PAF) (1194 Interfaces) (1194 Interfaces) Medium **Medium+ (5,2)** Heavy Heavy Heavy Heavy **Medium+ (5,4) Medium+ (4,2)** 5-m Payload 5-m Payload 5-m Payload 5-m Payload 4-m Payload 5-m Payload **Fairing Fairing Fairing Fairing Fairing Fairing** (Aluminum Isogrid) **Dual-Manifest Dual-Manifest** (Short) (Long) **Delta IV Payload Fairing Envelopes** 1<u>666</u> dia <u>1575</u> dia **Growth Options** 66 62 937 dia 1664 dia 1194-4 Clampband 1575-4 Bolted Interface (121 places) **1666-4** Clampband 65.5 <u> 1575</u> dia **←** 1666 66 dia 937-4 or 5 1664-4 or 5 1194-5 Clampband 1575-5 Bolted Interface (121 places) 1666-5 Clampband Separation Bolt Interface Clampband 3518 dia (4 places) 4394 138.5 173

**Delta IV Payload Attach Fittings** 

3518-5

(6 places)

Separation Bolt Interface

All dimensions are in mm/in., unless noted.

GEO – Geosynchronous Earth Orbit

GTO - Geosynchronous Transfer Orbit

ISS – International Space Station LEO – Low Earth Orbit

TLI - Trans Lunar Injection

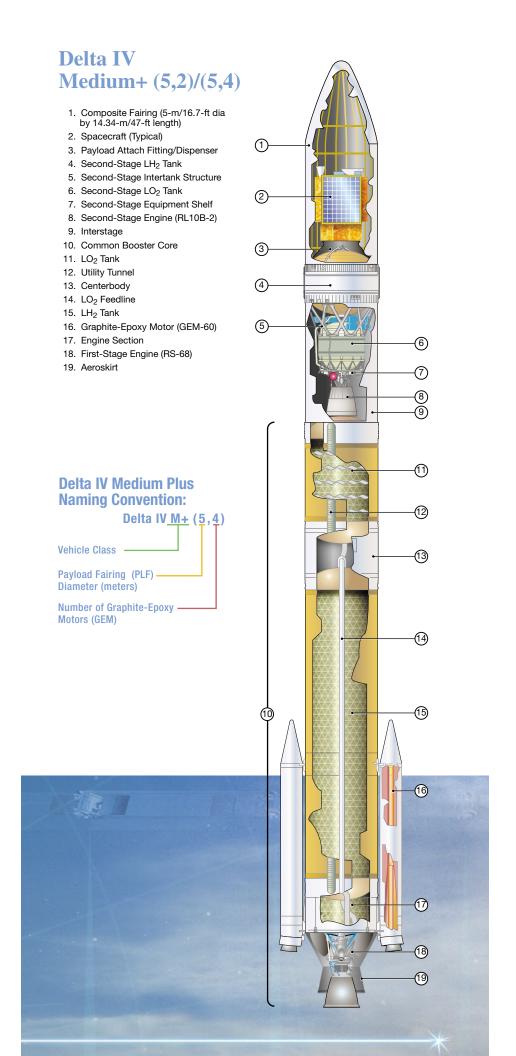
4394-5

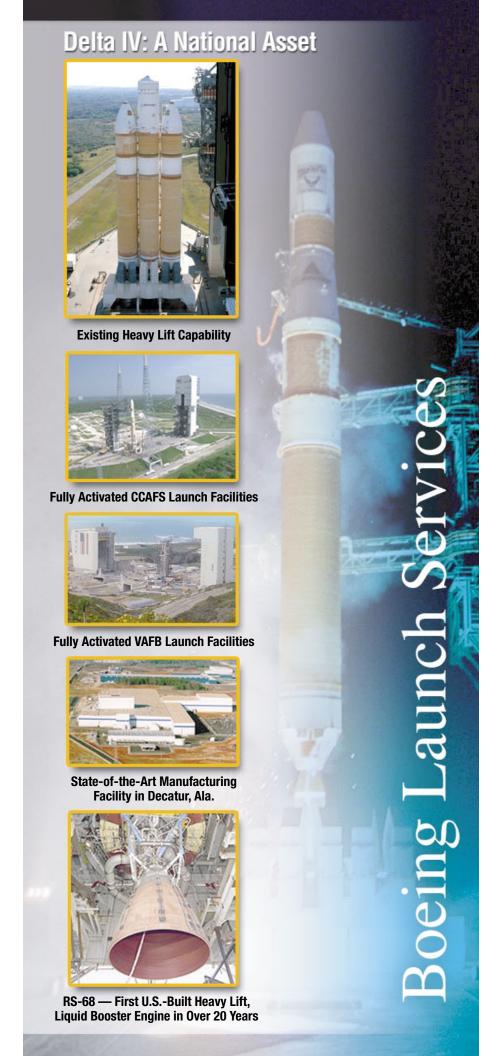
**EELV Standard Interface** 

Bolted Interface (72 places)

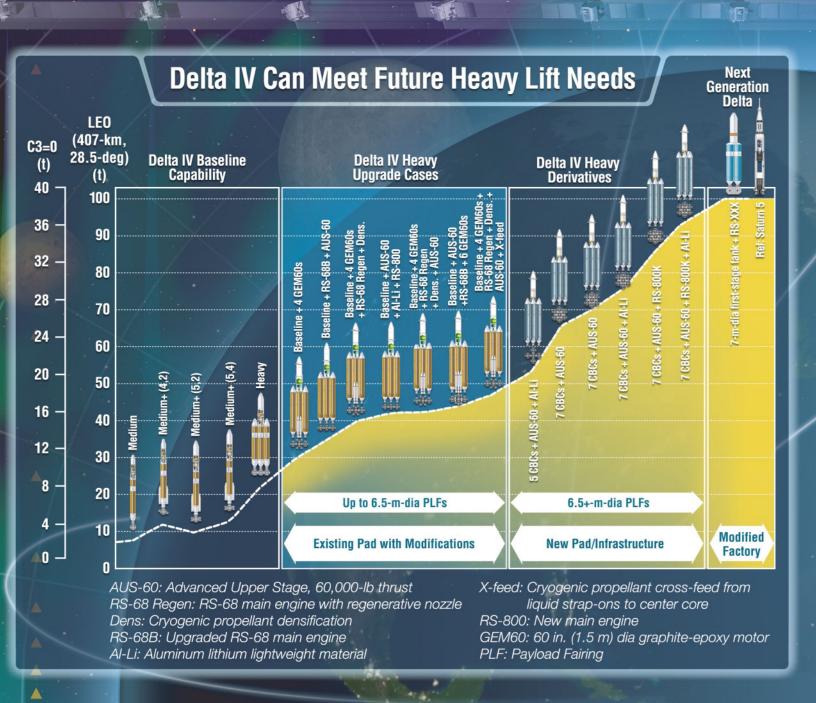
#### **Boeing Launch Services**

5301 Bolsa Avenue Huntington Beach, CA 92647-2099 714-896-5195 Fax: 714-372-0886 E-mail: launchservices@boeing.com www.boeing.com/launch Boeing Launch Hotline: 714-896-4770









## Delta IV

### The 21st Century Launch Solution

Developed in partnership with the U.S. Air Force's Evolved Expendable Launch Vehicle (EELV) program, the Boeing Delta IV continues to satisfy government requirements for access to space.

Delta IV offers design simplicity, manufacturing efficiency, and streamlined off-pad mission and vehicle integration, enabling rapid turnaround, near day-of-launch spacecraft access, and a 100 percent success rate for its first three launches. Delta IV was designed for producibility, resulting in a production capacity that far exceeds current and expected customer needs.

Product information as of 7-04. For mission-specific information, please contact your Boeing representative or refer to the Payload Planners Guide.