

# SPACEX

Space Exploration Technologies



Courtesy of USAKA



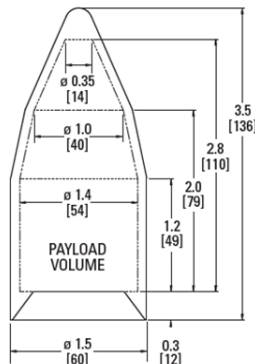
FALCON

Falcon 1 Launch Vehicle Data Sheet

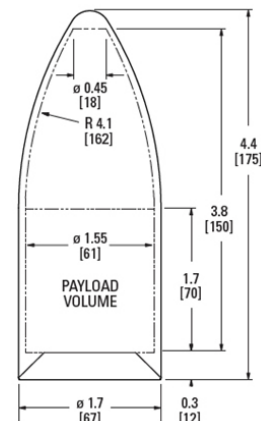
# Falcon 1

SpaceX recognizes that nothing is more important than getting our customer’s spacecraft safely to its intended destination. Falcon 1 launch vehicles are designed to provide breakthrough advances in reliability, cost, and time to launch. The primary design driver is and will remain reliability.

The Falcon 1 launch vehicle offers the lowest price launch on the market, and it has been the pathfinder for all subsequent SpaceX launch vehicles. The Falcon 1 User’s Guide outlines the environments and structural characteristics of the launch vehicle in detail. The standard Falcon 1 will be available for launches until mid 2010, upon which time the upgraded Falcon 1e will become the vehicle for transporting small payloads. Falcon 1e is the next generation of the Falcon 1 launch vehicle and offers additional capability enabled by an upgraded Merlin engine, elongated first stage tank, and an expanded fairing.



**Falcon 1**



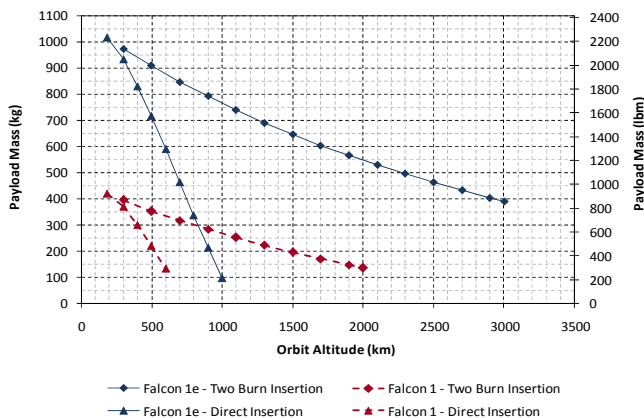
**Falcon 1e**



	<b>Falcon 1</b>	<b>Falcon 1e</b>
<b>Length</b>	21.3 m (70 ft)	27.4 m (90 ft)
<b>Width</b>	1.7 m (5.5 ft)	1.7 m (5.5 ft)
<b>Mass</b>	27,670 kg (61,000 lbs)	46,760 kg (103,000 lbs)
<b>Thrust at liftoff</b>	347 kN (78,000 lbf)	556 kN (125,000 lbf)
<b>Mass to LEO</b>	420 kg (926 lb)	1010 kg (2220 lb)
<b>Price*</b>	\$7.9 M	\$9.1 M

\*US dollars paid-in-full at Authority-to-Proceed, January 1, 2008.

**Direct & Two-burn Performance, 9.1° Inclination**



**Two-burn Performance to LEO**

