



## PEGASUS® Patented Air Launch System

Pegasus was specifically developed to provide cost-effective access to space for the small satellite community. The Pegasus air-launch system is the industry's workhorse, providing launch services for technology demonstration, scientific investigation, remote sensing and communications missions. The three-stage Pegasus boosts small satellites weighing up to 1,000 pounds (450 kilograms) into low-Earth orbit. Pegasus is carried aloft by an L-1011 carrier aircraft to approximately 39,000 feet (12,000 meters) over open ocean, where it is released and then

free-falls in a horizontal position for five seconds before igniting its first stage rocket motor. In a typical mission Pegasus delivers its payload into orbit in a little over ten minutes.

### PEGASUS "FIRSTS"

- World's first privately developed space launch vehicle.
- Maiden 1990 mission marked the first all-new, unmanned space launch vehicle developed in the U.S. in more than 20 years.
- First winged vehicle to accelerate to eight times the speed of sound.
- First air-launched rocket to place satellites into orbit, using its carrier aircraft as an "air breathing reusable first stage."

### KEY FEATURES

- Proven small-class space launch vehicle.
- 45 missions conducted; flawless record since late 1996.
- Launches conducted from California, Virginia, Florida, the Canary Islands and the Kwajalein Atoll in the Marshall Islands.

### SYSTEM FEATURES

Inertially guided three stage solid rocket propulsion  
Horizontal satellite integration and simplified launch operations

Carrier aircraft provides on-board payload monitoring and control

Air-launched mobility enables launch from anywhere, worldwide:

- Demonstrated launch capability from U.S. Air Force Western Range (WR), Eastern Range (ER), NASA's Wallops Flight Facility, Canary Islands and Kwajalein launch sites
- Flight-proven with a demonstrated success record:
- 45 missions conducted
- 31 consecutive fully successful missions
- Flexibility to support unique user needs

## PERFORMANCE

- Flight verified systems performance
- Optional Hydrazine Auxiliary Propulsion System (HAPS)
  - Precision injection capability
  - Increased performance to higher LEO altitudes
- Any inclination can be achieved by varying launch point

## PAYLOAD ACCOMMODATIONS

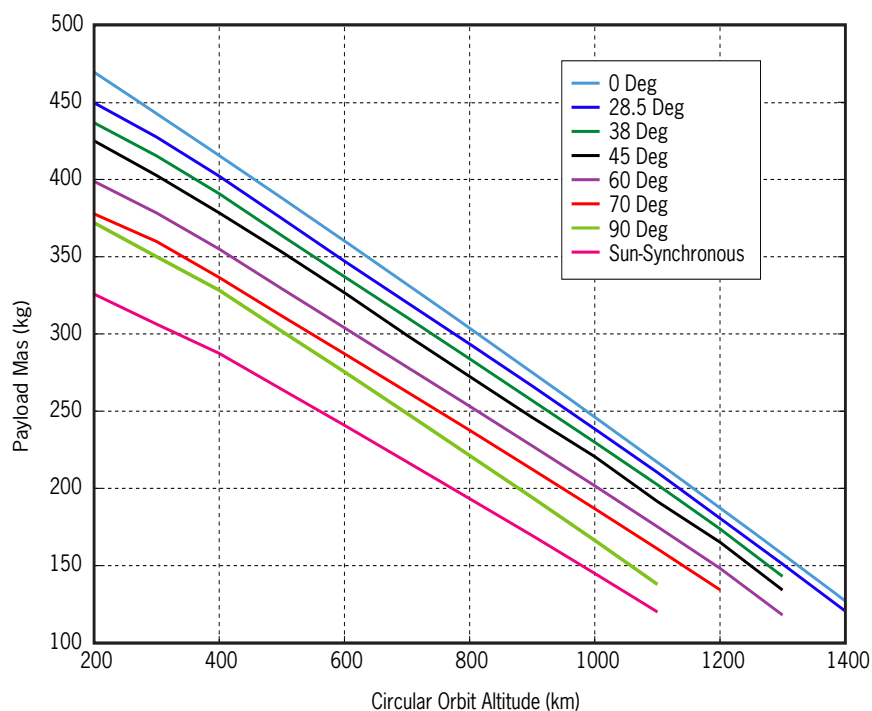
### Standard Accommodations

- Temperature, humidity control
- Class 8 (100,000) cleanliness

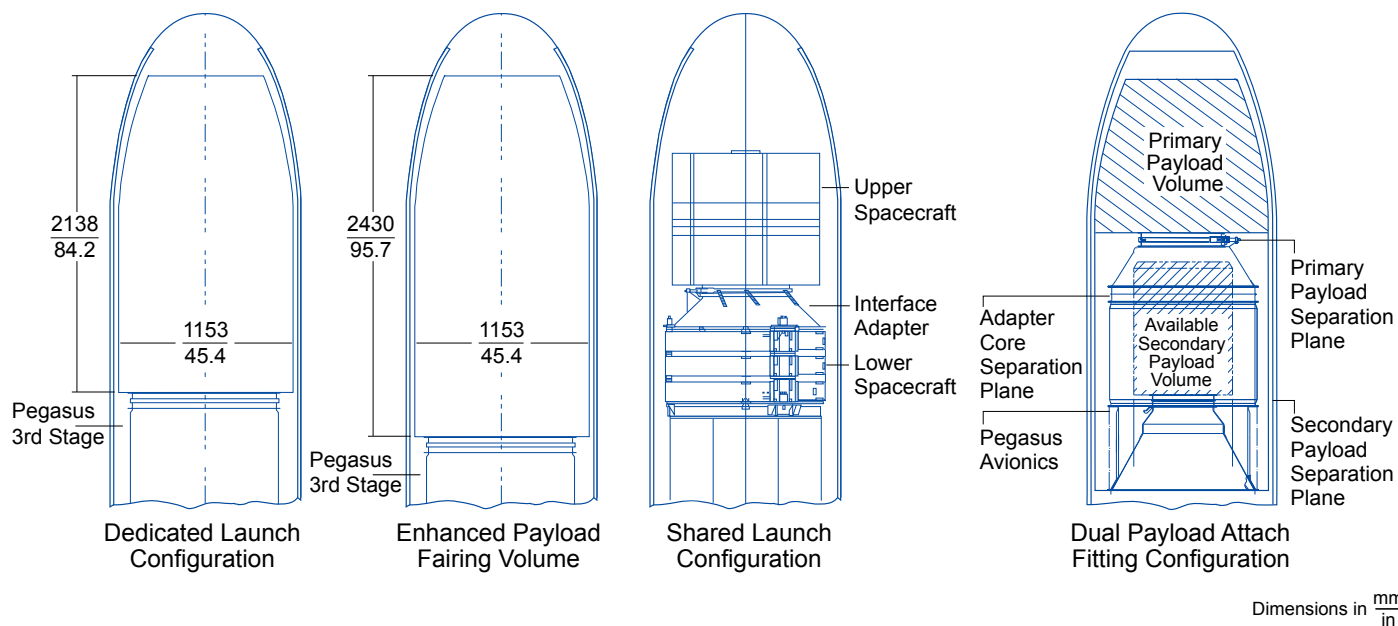
### Enhanced Accommodations

- Class 7 (10,000) cleanliness
- Nitrogen purge

### Flight-Proven Dual Payload Accommodations



## PAYLOAD ACCOMMODATIONS



## MORE INFORMATION

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