

Taurus®

Ground-Launched Space Launch Vehicle



Overview

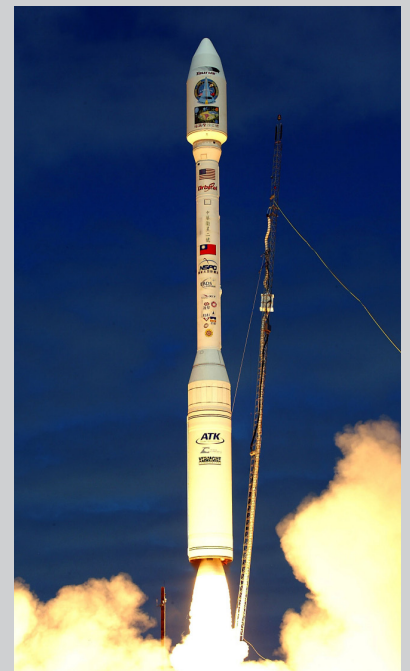
The Taurus launch vehicle provides a cost-effective and reliable launch capability for satellites weighing up to 3,500 pounds (1,590 kilograms). Taurus is currently in production to support U.S. Government and commercial customers. The versatility and flexibility of the Taurus family of vehicles provides the means to access space for a variety of payloads.

System Features

- Incorporates all solid propulsion stages and proven technologies to meet mission requirements
- Provides substantial payload performance into a variety of low inclination low-Earth orbit (LEO), polar LEO, sun-synchronous LEO, geotransfer and interplanetary orbits
- Designed for easy transportability, rapid set-up and launch from austere launch sites
- Streamlined vehicle/payload integration and testing through simplified avionics interfaces and offline payload encapsulation
- Compatible with the U.S. Air Force Western Range (WR), Eastern Range (ER), NASA's Wallops Flight Facility, Kodiak Launch Complex (KLC) and Reagan Test Site (RTS)
- Flight-proven heritage with single and multiple payloads

QUICK FACTS

- Taurus incorporates advanced structural and avionics technology proven on Pegasus and other operational launch systems
- Taurus has launched 17 satellites in nine missions since 1994
- Taurus has flown in four different configurations and has conducted both dedicated and dual-launch missions



The Taurus launch vehicle is a ground-launched variant of Orbital's highly successful Pegasus® air-launched space booster.

All major Taurus configurations (SSLV, Standard and XL) have launched.

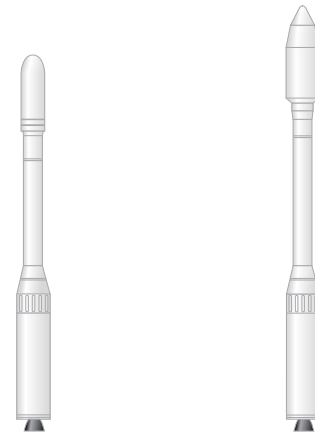
Vehicle Statistics

- Weight: 77,000 kg (170,000 lb.)
- Height: 30 to 32 m (97 to 104 ft)

Taurus Configuration Numbering

	3	2	1	0
Vehicle Configuration	Fairing Size	Stage 3 Motor	Stage 4 Motor	
1 - SSLV Taurus (Peace-keeper Stage 0, Std Stages 1, 2)	1 - 63" 2 - 92"	1 - Orion-38 3 - STAR-37	0 - <None> 3 - STAR-37	
2 - Standard Taurus (Castor 120 Stage 0, Std Stages 1, 2)				
3 - Taurus XL (Castor 120 Stage 0, XL Stages 1, 2)				

Taurus Vehicle Configurations



Typical Performance	3110 Taurus XL	3210 Taurus XL
400 km @ 28.5°	1,458 kg (3,214 lb)	1,278 kg (2,814 lb)
400 km @ Sun-Synchronous	1,054 kg (2,324 lb)	912 kg (2,008 lb)
Typical Performance	3113 Taurus XL	
C3 -10 (km ² /sec ²)	530 kg (1,170 lb)	
C3 0 (km ² /sec ²)	425 kg (940 lb)	

Flexible Payload Fairing Options

Two flight-proven fairings and two dual payload attach fittings are offered to provide cost-effective access to space for single and multiple payloads.

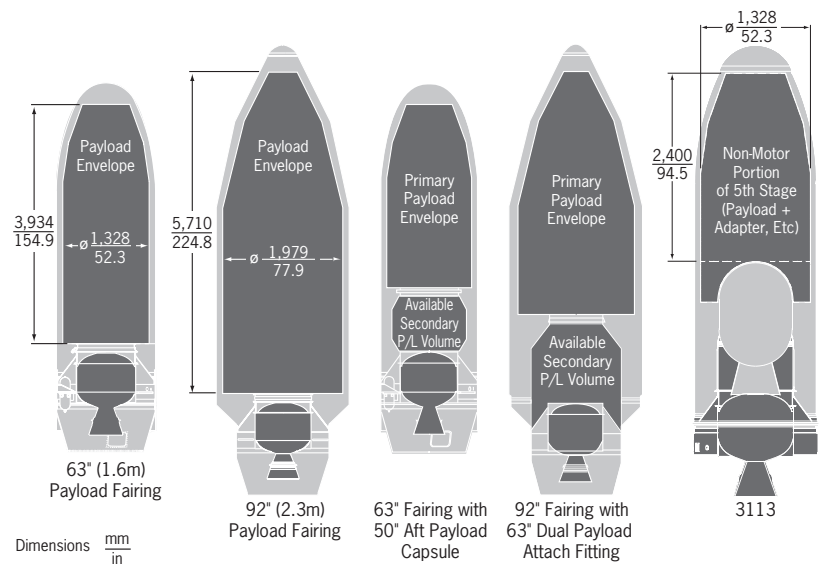
Standard Payload Accommodations

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

Enhanced Accommodations

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

Flight-Proven Dual Payload Accommodations



More Information

For additional information and a complete Taurus Users Guide, please visit: www.orbital.com/NewsInfo/Publications/taurus-user-guide.pdf

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