



# OMEGA™

## Intermediate/Heavy-Class Space Launch Vehicle

**N**orthrop Grumman is developing OmegaA, a new intermediate/heavy-class space launch vehicle, to launch a broad range of satellites for both the Government and commercial communications and science markets. With more than 770 launches in the company's profile—including space and satellite launches, targets, interceptors, hypersonic and suborbital rockets—Northrop Grumman is a proven launch provider for the Department of Defense.

OmegaA expands the range of Northrop Grumman's current operating space launch vehicles, from its small-class Pegasus and Minotaur to its medium-class Antares, by adding the capability to launch intermediate- and heavy-class payloads. OmegaA's design draws on flight-proven hardware, systems, subsystems and suppliers common to Northrop Grumman's other launch vehicles. This approach enables synergies, reduces technical risk and provides hundreds of millions in cost savings to government and commercial Northrop Grumman programs.

Northrop Grumman has completed development on significant portions of the OmegaA launch system, and hardware verification testing activities are underway. Northrop Grumman will conduct full-scale static fire ground tests of its first and second stages in 2019. The first certification test flight is on track for 2021, and operational flights will begin in 2022.

### **Facts At A Glance**

Payload capacity of:

- 4,900 – 10,100 kg to Geosynchronous Transfer Orbit (GTO)
- 5,250 – 7,800 kg to Geostationary Equatorial Orbit (GEO)

Mature design (100% of OmegaA is at Technology Readiness Level 7 or higher)

Capable of launching from east and west coast ranges

Incorporates flight-proven technologies incorporated in nearly 100 successful Northrop Grumman space launch missions

Component, subsystem, and process commonality with other Northrop Grumman rockets, resulting in lower technical risk and cost savings for customers

Currently supported by approximately 600 employees, with 1,000 anticipated by 2020

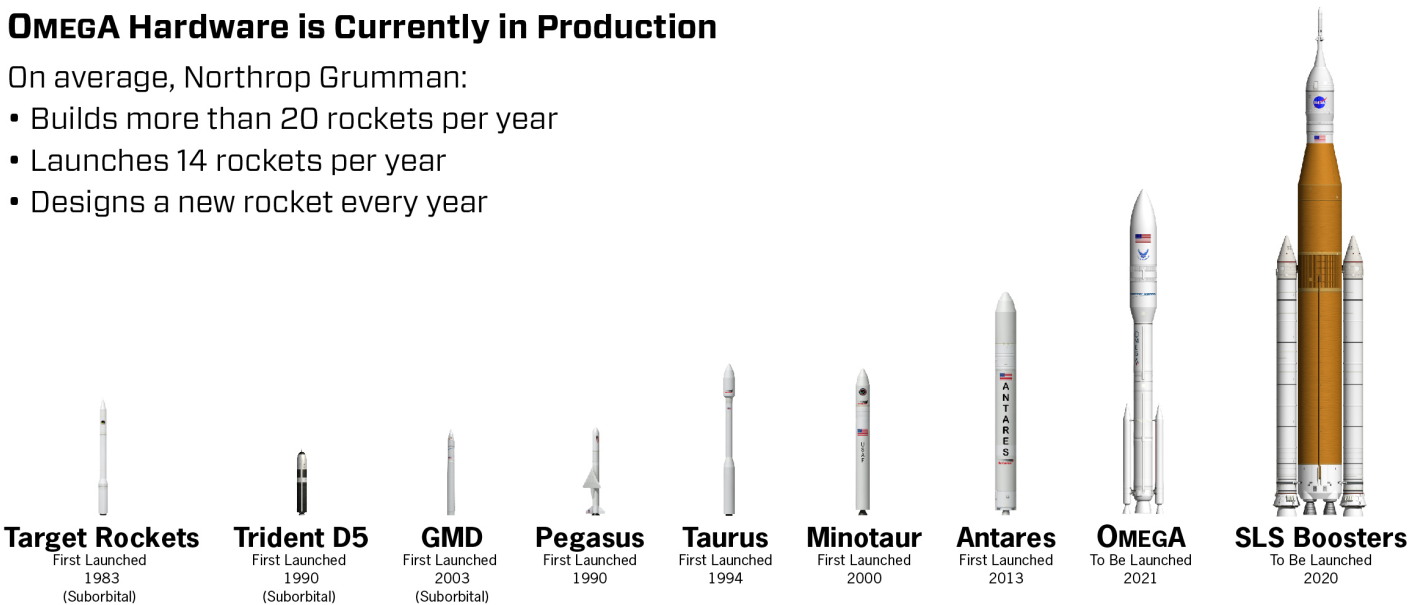


Vehicle Configuration	Intermediate Configuration	Heavy Configuration
Payload Fairing	5 x 15m	5 x 15m or 5 x 20m
Payload Capacity	4,900 - 10,100 kg (GTO)	5,250 - 7,800 kg (GEO)
Stage 3	RL10C	RL10C
Stage 2	CASTOR® 300	CASTOR® 300
Stage 1	CASTOR® 600	CASTOR® 1200

## OMEGA Hardware is Currently in Production

On average, Northrop Grumman:

- Builds more than 20 rockets per year
- Launches 14 rockets per year
- Designs a new rocket every year



## More Information

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