

Stratolaunch Hypersonics Platform

About Stratolaunch

Founded by Microsoft Co-founder Paul G. Allen in 2011 Stratolaunch offers access to the hypersonic flight regime in the most flexible, rapidly responsive and cost-effective way.

Through our suite of reusable hypersonic vehicles that are tailorable to customer instrumentation and experiments, as well as our carrier aircraft that is readily available for multi-vehicle launch services, Stratolaunch makes testing and operating in hypersonic environments routine and affordable even for the most leading edge ambitions in the U.S. national security industry.



Fully funded through our upcoming hypersonic flight test by a private equity firm, Stratolaunch is 100% U.S. owned and headquartered in Seattle, WA with manufacturing and operations located in Mojave, CA.

Why Stratolaunch

Stratolaunch is unparalleled in offering hypersonic flights that are:

Highly Flexible	Customizable to your instrumentation, experimentation, payload needs and mission profiles between Mach 5 and Mach 7
Rapidly Responsive	Reusable vehicles enable rapid iteration for payload and mission evolution
Cost Effective	Reusable vehicles enable minimum cost profile

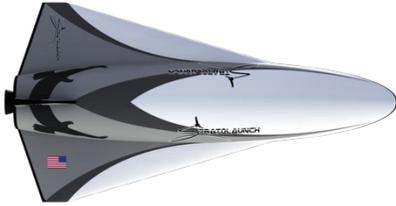
Our Offerings

Hypersonic Vehicles	Customized testbed or for specific operational support missions Sold or operated by Stratolaunch
Carrier Aircraft Services	Suitable for carrying multiple test or operational vehicles
Flight Data	Access to proprietary Stratolaunch data suite

Stratolaunch Talon A

Reusable Hypersonic Vehicle

The Stratolaunch Talon-A is a flexible, high-speed testbed built for offensive hypersonics, hypersonic defense and hypersonic R&D.



The Stratolaunch Talon A Vehicle is a testbed flexible for:

- Hypersonic R&D: hypersonic testbed
- Hypersonic operations: targets, tracking, etc.

Talon A Customer Offerings

Analytics

The Talon-A vehicle provides routine access to high-Mach number, hypersonic flight where data may be collect in the true flight environment. The vehicle is highly instrumented to obtain fundamental aerothermal and performance data, which may provide unique data sets for comparison and calibration of numerical prediction tools. The Talon-A provides here-to-fore unobtainable measurement access to the hypersonic flight environment on a recurring basis.

Flexible

The Talon-A is highly instrumented to collect vehicle and payload experiment data during flight. Data are collected and recorded on board the vehicle and may be telemetered to ground stations. Both proprietary and classified payloads may be flown with secure data collection and telemetry. Since the Talon-A is a reusable vehicle, the experiments, payloads, and instrumentation are recovered for inspection and re-use.

Capacity

The large payload capability of the Stratolaunch carrier aircraft enables the captive-carry and air-launch of multiple Talon-A vehicles in a single flight. Up to three Talon-A vehicles may be carried underneath the carrier aircraft center wing with the current pylon design. This unique capability enables

Roadmap

- 2022 — initial operating capability
- 2023 – multi-mission, single aircraft sortie capability

Stratolaunch Carrier Aircraft

Multi-Vehicle Aircraft

The Stratolaunch Carrier Aircraft is designed to eliminate technical and logistical barriers that the hypersonics market faces today.



The Stratolaunch Carrier Aircraft is available for launching:

- Stratolaunch or non-Stratolaunch vehicles
- Hypersonic or non-hypersonic vehicles

Carrier Aircraft Customer Offerings

Flexibility

When it comes to choosing your launch dates, the sky is just about the limit. With Stratolaunch, you launch on your timeline and your terms. If you don't want to reserve the full capacity, you can "rideshare" with another payload. Thanks to our multi-payload high-speed vehicles, a single mission can serve multiple customers.

Reliability

Fixed-range launches are just that... fixed. With a mobile launch platform, you can avoid delays. Unlike traditional ground launches, the Stratolaunch aircraft can take off from dozens of U.S. runways. Our air-launch system allows us to avoid hazards like bad weather and conflicting fixed-range launch schedules (which often result in costly delays or cancellations). Rain or shine, Stratolaunch gets your payload launched on time.

Convenience

With 12 or more missions per year, we're ready to launch when you are. While fixed-range launches are typically scheduled years in advance, Stratolaunch can have your payload tested in months — meaning booking space for your payload is just about as easy as booking a seat on a flight. Running late? We can accept your payload mere days ahead of launch.

Roadmap

- April 2019 — Successful first flight
- 2022 — Operational aircraft services