



SpinLaunch

United States · founded 2014 · spinlaunch.com

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SpinLaunch

SpinLaunch is an American space technology company, founded in 2014 by Jonathan Yaney and headquartered in Long Beach, California, that has created an alternative method for putting satellites into orbit. Rather than relying on the chemical propulsion that dominates the launch industry, SpinLaunch's Orbital Launch System uses a rotating carbon-fiber arm inside a 100-meter-diameter steel vacuum chamber to accelerate a launch vehicle to speeds of up to 8,000 kph before release, eliminating up to 70 percent of the fuel and structural mass required by a typical rocket. After the vehicle ascends above the stratosphere, a small, inexpensive propulsive upper stage provides the final velocity needed for orbital insertion. As a proving ground for this technology, SpinLaunch built and operates the Suborbital Accelerator at Spaceport America in New Mexico — a 33-meter-span vacuum chamber, the largest of its kind ever built, capable of launching test payloads at velocities of 800 to 5,000 mph. Since its first test flights, the system has conducted numerous suborbital launches with a variety of test vehicles and payloads, and the facility now also offers testing services to outside customers and serves as a satellite-qualification and lunar-testing facility. SpinLaunch's satellite business, Meridian Space, is developing a proliferated, low-cost LEO satellite communications constellation built around small, efficient high-performance microsatellites (around 70 kg each) designed to be built and launched cheaply. Meridian targets enterprise, government and defense customers with an enterprise-first broadband architecture offering multiple terabits per second of global capacity, 5G NTN-compatible, waveform-agnostic connectivity, and constellations that customers can own outright or as

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SERVICES

Services

Lunar Testing Facility

SpinLaunch provides a lunar testing facility using its Suborbital Accelerator, offering long-term value for lunar mission preparations.

Satellite Qualification Facility

SpinLaunch's Suborbital Accelerator serves as a satellite qualification facility, providing long-term value for verifying satellite performance.

Testing Capabilities for Customers

SpinLaunch offers testing capabilities to customers using its Suborbital Accelerator, which can launch test payloads from 800 to 5,000 mph.

Product catalogue



SPINLAUNCH

Meridian Space LEO Satcom Constellation & Microsatellite Bus

Meridian Space's proliferated LEO satellite communications constellation, built on ~70 kg high-performance microsatellites, offering enterprise and government customers 2+ Tbps of

Satellite mass	70 kg
Constellation size	250 high-performance microsatellites
Global capacity	2+ Tbps
Sellable global capacity	2+ Tbps
Orbit	Proliferated LEO, repeating ground track
Payload architecture	Simple relay/bent-pipe payload, heavy processing kept on ground
Network protocol	5G NTN, open waveform-agnostic architecture

price on request



SPINLAUNCH

SpinLaunch Orbital Launch System

A kinetic (non-combustion) orbital launch system that uses a rotating carbon-fiber arm inside a 100-meter vacuum chamber to accelerate a launch vehicle to 8,000 kph before a small

Launch method	Kinetic (rotating carbon-fiber arm in vacuum chamber)
Vacuum chamber diameter	100 meters
Release velocity	Up to 8,000 kph
Fuel/structure reduction vs. typical rocket	Up to 70%
Orbital insertion	Small propulsive upper stage completes ascent to orbit

price on request



SPINLAUNCH

SpinLaunch Suborbital Accelerator

A 33-meter vacuum-chamber test and qualification system at Spaceport America that launches payloads at 800-5,000 mph, serving as SpinLaunch's development platform and as a satellit

Vacuum chamber span	33 meters
Test payload velocity range	800-5,000 mph
Location	Spaceport America, New Mexico, USA
Use cases	Development test flights, customer payload testing, satellite qualification, lunar-environ

price on request

Contact SpinLaunch

Open the company profile on NewSpace Market to see full specifications and datasheets, and to send a request for quotation that reaches the manufacturer directly.

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