

# Global Solid-liquid Hybrid Launch Vehicle Supply, Demand and Key Producers, 2026-2032

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## Abstracts

The global Solid-liquid Hybrid Launch Vehicle market size is expected to reach \$ 3244 million by 2032, rising at a market growth of 17.1% CAGR during the forecast period (2026-2032).

In 2025, global Solid-liquid Hybrid Launch Vehicle production reached approximately 80 units , with an average global market price of around US\$13million per unit.

A Solid-liquid Hybrid Launch Vehicle is a rocket that combines solid fuel with a liquid (or gaseous) oxidizer to generate thrust. The oxidizer is continuously injected into a combustion chamber containing solid fuel, enabling controlled combustion. This propulsion approach integrates the structural simplicity and storage advantages of solid rockets with the controllability and partial throttle capability of liquid propulsion systems. Compared to solid rockets, hybrid systems offer improved safety and controllability, while compared to liquid rockets, they feature simpler architecture and potential cost advantages. However, due to limitations in combustion efficiency, thrust density, and engineering maturity, hybrid launch vehicles are still in a developmental stage and are mainly used for suborbital missions, small payload launches, and technology demonstrations.

The upstream of solid-liquid hybrid launch vehicles includes solid fuel materials (such as HTPB-based polymers), liquid oxidizers (e.g., liquid oxygen, hydrogen peroxide, nitrous oxide), combustion chamber and injector materials, composite structures, and control systems, involving chemical and advanced manufacturing sectors. Representative suppliers include Air Liquide (industrial gases such as liquid oxygen) and Hexcel (carbon fiber composites). The midstream consists of rocket developers and launch service providers such as Virgin Galactic and Northrop Grumman, which are advancing

hybrid propulsion applications. Downstream includes commercial space companies, research institutions, and government agencies such as NASA, with applications in suborbital missions, small satellite launches, and technology demonstrations.

The solid-liquid hybrid launch vehicle market is currently in an early-stage phase of technological exploration and commercialization, representing a niche segment within the broader launch vehicle industry. Its primary applications include suborbital missions, small satellite launches, and technology demonstrations, where it offers advantages in safety and operational flexibility. With the growth of commercial space and demand for small launch services, the segment shows development potential, particularly in reducing system complexity and improving safety. Market trends indicate ongoing technological validation and gradual engineering deployment, along with exploration of integration with reusable systems. Key drivers include the expansion of commercial space activities, demand for cost-effective launch solutions, and safety considerations. However, challenges such as lower combustion efficiency, limited thrust density, low technological maturity, and an underdeveloped supply chain constrain its competitiveness against liquid propulsion systems. Overall, hybrid launch vehicles are likely to remain a complementary technology, gradually achieving commercialization in niche applications.

This report studies the global Solid-liquid Hybrid Launch Vehicle production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Solid-liquid Hybrid Launch Vehicle and provides market size (US\$ million) and Year-over-Year (YoY) Growth, considering 2025 as the base year. This report explores demand trends and competition, as well as details the characteristics of Solid-liquid Hybrid Launch Vehicle that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Solid-liquid Hybrid Launch Vehicle total production and demand, 2021-2032, (Units)

Global Solid-liquid Hybrid Launch Vehicle total production value, 2021-2032, (USD Million)

Global Solid-liquid Hybrid Launch Vehicle production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (Units), (based on production site)

Global Solid-liquid Hybrid Launch Vehicle consumption by region & country, CAGR, 2021-2032 & (Units)

U.S. VS China: Solid-liquid Hybrid Launch Vehicle domestic production, consumption, key domestic manufacturers and share

Global Solid-liquid Hybrid Launch Vehicle production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (Units)

Global Solid-liquid Hybrid Launch Vehicle production by Type, production, value, CAGR, 2021-2032, (USD Million) & (Units)

Global Solid-liquid Hybrid Launch Vehicle production by Application, production, value, CAGR, 2021-2032, (USD Million) & (Units)

This report profiles key players in the global Solid-liquid Hybrid Launch Vehicle market based on the following parameters - company overview, production, value, price, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include SpaceX, NASA, L3Harris, Northrop Grumman, Mitsubishi, MTAR Technologies, Rocket Lab, Blue Origin, United Launch Alliance, Firefly Aerospace, etc.

This report also provides key insights about market drivers, restraints, opportunities, new product launches or approvals.

Stakeholders would have ease in decision-making through various strategy matrices used in analyzing the World Solid-liquid Hybrid Launch Vehicle market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (Units) and average price (US\$/Unit) by manufacturer, by Type, and by Application. Data is given for the years 2021-2032 by year with 2025 as the base year, 2026 as the estimate year, and 2027-2032 as the forecast year.

Global Solid-liquid Hybrid Launch Vehicle Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Solid-liquid Hybrid Launch Vehicle Market, Segmentation by Type:

Low Earth Orbit

Medium Earth Orbit

Geosynchronous Orbit

Global Solid-liquid Hybrid Launch Vehicle Market, Segmentation by Payload Capacity:

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