

Global Hall Thruster Supply, Demand and Key Producers, 2026-2032

<https://marketpublishers.com/r/GB6BB61CB4C9EN.html>

Date: August 2026

Pages: 110

Price: US\$ 4,480.00 (Single User License)

ID: GB6BB61CB4C9EN

Abstracts

The global Hall Thruster market size is expected to reach \$ 3401 million by 2032, rising at a market growth of 10.0% CAGR during the forecast period (2026-2032).

In 2025, the global production of hall thruster reached approximately 8,500 units, with an average global market price of around US\$200,000 per unit. In the same year, the global total production capacity of hall thruster reached 10600 units. The industry average gross profit margin of this product reached 37%. A Hall thruster is an electric propulsion system. It uses electric and magnetic fields to ionize and accelerate propellant (such as xenon, krypton, or argon), forming a high-speed jet of plasma that generates thrust. Its characteristic is a much higher specific impulse than traditional chemical propulsion, significantly saving propellant, but with lower thrust. Therefore, it is not used for ground-based rocket launches. Instead, it is widely used for satellite orbit maintenance, position keeping, attitude control, and deorbiting, as well as the main propulsion of deep space probes. The Hall thruster industry chain is a technology-intensive, vertically collaborative chain. Upstream are suppliers of raw materials and core components, including companies providing magnetic materials, specialty metals (for cathodes), ceramic materials, power management chips (PMICs), and propellants (such as xenon, krypton, and argon). The midstream sector involves the R&D, manufacturing, and integration of complete thrusters, a core component of the industry chain. Participants include professional aerospace research institutions, established aerospace and defense enterprises, and emerging commercial aerospace companies such as Busek in the United States. The downstream sector encompasses terminal applications and operational services, primarily satellite manufacturers (such as SpaceX and various countries with spacecraft manufacturing capabilities) and satellite operators (such as those operating communications, remote sensing, and scientific research satellites). These purchase and ultimately use Hall thrusters to complete on-orbit

missions.

With the continued rise in global satellite launches and the rapid deployment of Low Earth Orbit (LEO) constellations, Hall thrusters?highly efficient electric propulsion systems with low fuel consumption?are expanding beyond high-end communications satellites into the markets for small satellites and mass-produced constellations. Concurrently, the increasing number of deep-space exploration missions and the demand for extended on-orbit satellite lifespans have driven the adoption rate of electric propulsion systems, which now exceeds 60% among new commercial satellites. Future growth is primarily driven by three factors: mass demand generated by large-scale satellite constellations (such as Starlink), the commercialization of micro-Hall thrusters fueled by spacecraft miniaturization, and the emergence of new markets for in-space services. Overall, the industry remains in a phase of rapid growth, characterized by high technical barriers, high market concentration, and strong integration between civil and military sectors.

This report studies the global Hall Thruster production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Hall Thruster 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 Hall Thruster that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Hall Thruster total production and demand, 2021-2032, (K Units)

Global Hall Thruster total production value, 2021-2032, (USD Million)

Global Hall Thruster production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (K Units), (based on production site)

Global Hall Thruster consumption by region & country, CAGR, 2021-2032 & (K Units)

U.S. VS China: Hall Thruster domestic production, consumption, key domestic manufacturers and share

Global Hall Thruster production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (K Units)

Global Hall Thruster production by Type, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

Global Hall Thruster production by Application, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

This report profiles key players in the global Hall Thruster 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 Busek, Safran, Phase Four, Redwire Space, Exotrail, Aerojet Rocketdyne, Bellatrix Aerospace, Busek, OKB Fakel, CASC, 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 Hall Thruster market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (K 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 Hall Thruster Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Hall Thruster Market, Segmentation by Type:

Steady-state Plasma Thruster (SPT)

Thruster with Anode Layer (TAL)

Global Hall Thruster Market, Segmentation by Thrust:

Micronewton

Millinewton

Newton

Global Hall Thruster Market, Segmentation by Power Rating:

Micro (5kW)

Global Hall Thruster Market, Segmentation by Application:

Microsatellite

Small Satellite

Medium Satellite

Large Satellite

Companies Profiled:

Busek

Safran

Phase Four

Redwire Space

Exotrail

Aerojet Rocketdyne

Bellatrix Aerospace

Busek

OKB Fakel

CASC

Key Questions Answered:

1. How big is the global Hall Thruster market?
2. What is the demand of the global Hall Thruster market?
3. What is the year over year growth of the global Hall Thruster market?
4. What is the production and production value of the global Hall Thruster market?
5. Who are the key producers in the global Hall Thruster market?
6. What are the growth factors driving the market demand?

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