

Hypersonic Technology Market Expected to Grow to \$13.02 Billion by 2030 with a CAGR of 9.5%

The Business Research Company's Hypersonic Technology Global Market Report 2026 – Market Size, Trends, And Forecast 2026-2035

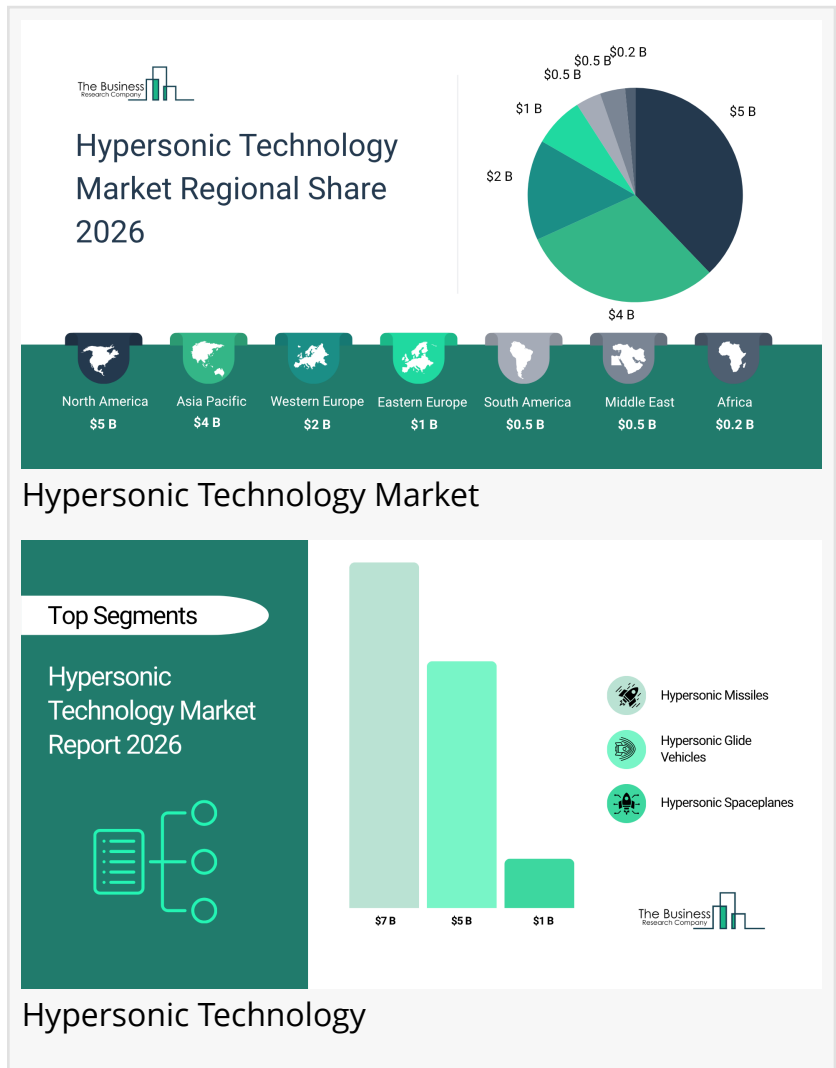
LONDON, GREATER LONDON , UNITED KINGDOM, October 16, 2026 /EINPresswire.com/ -- The [hypersonic technology sector](#) is emerging as a high-value segment within the broader defense and aerospace industries. As nations prioritize advanced weapons systems and aerospace innovations, the market for hypersonic technologies is set to experience substantial growth. Below is a detailed overview of market size, leading regions and countries, segments, key drivers, major players, and evolving trends shaping this dynamic field.

Market Size and Its Position Within Aerospace and Defense

The [hypersonic technology](#) market is projected to exceed \$13 billion by 2030. When compared to its parent defense market, which is anticipated to reach roughly \$724 billion in the same year, hypersonic technology will make up about 2% of that sector's total value. Within the even broader Aerospace & Defense industry, expected to be worth \$1,166 billion by 2030, hypersonic technology will represent close to 1% of the overall market size.

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North America as a Dominant Player in Hypersonic Technology by 2030

North America is forecasted to lead the hypersonic technology market globally, with a valuation of \$5.4 billion in 2030.

The market there is expected to expand from \$3.4 billion in 2025, growing at a compound annual growth rate (CAGR) of 9%. This robust growth is propelled by escalating investments in next-generation defense

modernization, deployment of cutting-edge strategic deterrence systems, increased government funding for hypersonic weapon development, closer collaboration between defense agencies and aerospace contractors, and continuous advancements in materials, propulsion systems, and flight testing infrastructure.

The United States as the Largest Hypersonic Market Nation in 2030

The United States will hold the largest share of the global hypersonic technology market in 2030, valued at \$4.7 billion. Starting from \$3.0 billion in 2025, it is expected to grow at a 9% CAGR. This growth stems from vigorous research and development efforts focused on hypersonic platforms, growing purchases of advanced missile systems for national security, substantial federal funding for aerospace innovation, expansion of specialized testing facilities, and an emphasis on maintaining a technological edge in emerging defense sectors.

Access The Detailed Hypersonic Technology Market Report Here

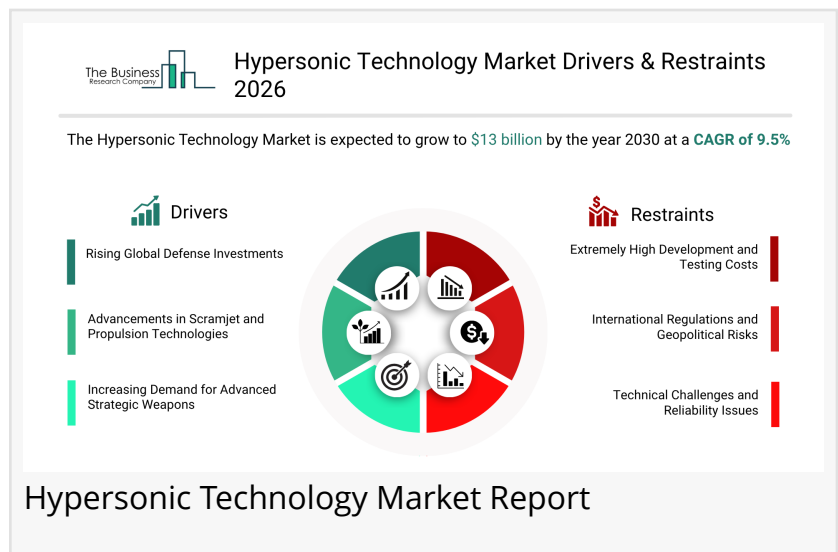
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Leading Segments in the Hypersonic Technology Market by 2030

The market divides into three primary types: hypersonic missiles, hypersonic glide vehicles, and hypersonic spaceplanes. Hypersonic missiles will remain the dominant segment, accounting for 53% of the market or approximately \$7 billion by 2030. This segment benefits from rising demand for rapid-response strike capabilities, a growing military focus on long-range precision systems, increased investment in guidance and maneuverability technologies, expanded defense procurement, and ongoing improvements in propulsion and mission effectiveness.

Segment Breakdown by Components, Launch Modes, and End Users

Hypersonic technology components include engines, materials and structures, avionics and control systems, propulsion systems, and fuel and storage solutions. The launch modes span air-launched, surface-launched, and subsea-launched platforms. End users encompass government and defense agencies, aerospace manufacturers, research institutions, commercial airlines, and



space agencies.

Growth Rate Expectations for Hypersonic Technology Through 2030

The hypersonic technology market is anticipated to grow at a steady compound annual growth rate (CAGR) of 9% through to 2030, reflecting strong demand and continuous innovation in this advanced sector.

Key Drivers Behind Market Expansion

One of the primary factors accelerating growth is the rising global investment in defense. Countries worldwide are increasing their defense budgets to enhance national security and maintain strategic deterrence, funneling significant funds into next-generation weapons, aerospace systems, and long-range strike technologies. This sustained funding supports the accelerated development, testing, and deployment of hypersonic platforms, contributing to approximately 2.5% annual growth in the market.

Technological progress in scramjet and propulsion systems also plays a crucial role. Advancements in these areas improve flight stability, range, and overall hypersonic mission performance. Engineers and researchers are focused on enhancing engine efficiency, thermal management under extreme conditions, and sustained high-speed operation. These breakthroughs are expected to contribute an additional 2.5% growth per year.

Growing demand for highly advanced strategic weapons forms another strong growth catalyst. Military forces are increasingly investing in rapid-response, highly maneuverable systems that can penetrate sophisticated defense networks. Hypersonic technologies offer unmatched speed, precision, and flexibility, which are critical for modern warfare. This trend is projected to add roughly 2.3% growth annually to the market.

Opportunities in Key Hypersonic Segments by 2030

The hypersonic missiles, glide vehicles, and spaceplanes markets together are expected to generate over \$4.5 billion by 2030. This growth is driven by demand for high-speed precision strike capabilities, increased investment in aerospace innovation programs, expansion of flight testing and validation infrastructure, and a strategic focus on extending operational reach and superiority. Between 2025 and 2030, the hypersonic missiles and glide vehicles markets are projected to each grow by \$2 billion, while the spaceplanes segment is expected to expand by \$0.5 billion.

Market Composition and Company Strategies

The hypersonic technology sector is dominated by a mix of global defense contractors, aerospace manufacturers, and propulsion technology innovators. These companies are concentrating on next-generation hypersonic weapons, advanced materials engineering, propulsion system development, precision guidance, navigation technologies, and comprehensive flight testing. Key areas of focus include ultra-high-speed performance, mission reliability, thermal protection, operational range improvements, and compliance with stringent

military standards. Understanding this competitive landscape is critical for stakeholders pursuing growth, innovation, and strategic partnerships in the hypersonic ecosystem.

Leading Hypersonic Technology Market Player

Lockheed Martin Corporation emerged as the top market leader in 2025, holding a 13% market share. Their missiles and fire control division offers a wide array of hypersonic strike systems, advanced missile technologies, integrated launch solutions, and strategic defense platforms that provide long-range precision, high-speed maneuverability, and operational superiority.

Key Companies Driving the Hypersonic Technology Market

Other major players active in this market include Raytheon Technologies Corporation, Northrop Grumman Corporation, The Boeing Company, BAE Systems plc, L3Harris Technologies Inc., MBDA, Thales Group, Aerojet Rocketdyne Holdings, Leonardo S.p.A., Leidos Holdings Inc., Rafael Advanced Defense Systems Ltd., Kratos Defense and Security Solutions, Dynetics Inc., Defence Research and Development Organisation (DRDO), Rocket Lab USA Inc., SpaceX, Hermeus Corporation, ArianeGroup SAS, Destinus SA, Venus Aerospace Inc., Hypersonix Launch Systems Ltd., Exquadrum Inc., Spectral Energies LLC, and Specter Aerospace Inc.

Market Concentration and Competitive Landscape

The hypersonic technology market is highly concentrated, with the top 10 companies accounting for 67% of total revenue in 2025. This concentration reflects the technological complexity, high R&D costs, stringent defense procurement regulations, and national security considerations involved. Leading firms like Lockheed Martin, Raytheon Technologies, Northrop Grumman, Boeing, BAE Systems, L3Harris, MBDA, Thales, Aerojet Rocketdyne, and Leonardo maintain significant shares through advanced technology portfolios, long-standing government contracts, specialized engineering know-how, and strategic partnerships. As demand grows for next-gen strike and propulsion systems, these companies are well positioned to capitalize on innovation and modernization programs.

Important Suppliers of Raw Materials

Key raw material providers supporting the hypersonic technology market include Honeywell International Inc., Carpenter Technology Corporation, ATI Inc., Haynes International, Kennametal Inc., Hexcel Corporation, Toray Industries, Solvay SA, Teijin Limited, Materion Corporation, VSMPO-AVISMA Corporation, Alleima AB, Aperam S.A., Precision Castparts Corp., Arconic Corporation, CoorsTek Inc., Saint-Gobain S.A., Morgan Advanced Materials plc, and Kymera International.

Wholesalers and Distributors Serving the Market

Major distribution and wholesale companies in this sector include Wesco International, Arrow Electronics, Avnet, TTI, Future Electronics, RS Group, Mouser Electronics, DigiKey Corporation, Newark Electronics, Sager Electronics, Powell Electronics, Heilind Electronics, Rutronik Elektronische Bauelemente GmbH, Farnell Global, Master Electronics Corporation, Velocity Electronics, Smith & Associates, Fusion Worldwide, and ASAP Semiconductor.

Primary End Users of Hypersonic Technology

Principal end users range from government defense agencies such as the U.S. Department of Defense, U.S. Air Force, Navy, and Army to prominent aerospace and research organizations like NASA, Defence Research and Development Organisation (DRDO), Indian Air Force, Indian Space Research Organisation, UK Ministry of Defence, Royal Air Force, French and German Armed Forces, Japan Ministry of Defense, Japan Aerospace Exploration Agency, China's People's Liberation Army, China National Space Administration, Russian Aerospace Forces, Roscosmos, and the Australian Department of Defence.

Noteworthy Competitive Trends Transforming the Market

A significant innovation reshaping the hypersonic technology landscape is the emergence of detonation-based propulsion systems, which offer enhanced flight speeds, improved propulsion efficiency, and superior operational performance for advanced hypersonic vehicles. For example, in June 2024, Venus Aerospace introduced the VDR-2 Detonation Ramjet—an engine designed for hypersonic aircraft capable of speeds exceeding Mach 5. Its efficient combustion design, lightweight composite materials, and optimized air-breathing features increase propulsion effectiveness, reduce fuel consumption, and support demanding defense and aerospace missions requiring sustained hypersonic flight.

Strategies Companies Employ to Maintain a Competitive Edge

Industry leaders are focusing on several key strategies, including the development of advanced scramjet propulsion technologies to boost flight performance, utilization of high-temperature composite materials to improve thermal resistance, forging strategic defense partnerships to speed up hypersonic program development, integrating artificial intelligence to enhance guidance and navigation systems, and investing heavily in flight testing to validate operational readiness and deployment capabilities.

This comprehensive snapshot highlights how the hypersonic technology market is evolving rapidly, driven by substantial defense investments, technical advancements, and strategic demand for next-generation aerospace capabilities.

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