

Hypersonic Missiles Market By Type (Hypersonic Boost Glide Missile, Hypersonic Cruise Missile, and Hypersonic Ballistic Missile), Range (Short Range, Medium Range, and Long Range), End User (Army, Navy, and Air Force) and Launch Platform (Ground Launch, Air Launch, and Sea Launch): Global Opportunity Analysis and Industry Forecast, 2023 - 2032

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Abstracts

The global hypersonic missiles market was valued at \$ 6,328.3 million in 2022 and is projected to reach \$ 18,005.7 million by 2032, growing at a CAGR of 11.3% from 2023 to 2032.

A hypersonic missile is a sophisticated projectile launched by a rocket into the earth's upper atmosphere, achieving speeds exceeding Mach 5, or five times the speed of sound, which equates to approximately 6,174 kilometers (3,836 miles) per hour. This rapid velocity enables them to cover long distances in a short time, significantly reducing the time available for detection and interception by enemy defenses. Hypersonic missiles employ various propulsion systems to achieve and sustain hypersonic speeds. These include scramjet engines, ramjet engines, or boost-glide systems. Scramjet engines are particularly common in hypersonic missiles, as they use high vehicle speed to compress incoming air before combustion, enabling sustained high-speed flight. Ramjet engines operate similarly but may require higher initial speeds to function efficiently.

A hypersonic ballistic missile is a type of missile that travels at hypersonic speeds

(typically defined as speeds exceeding Mach 5, or five times the speed of sound) and follows a ballistic trajectory during its flight. The hypersonic ballistic missile is launched from a ground-based launcher, submarine, or other launch platform using a powerful rocket booster. The booster stage provides the initial thrust required to propel the missile into the upper atmosphere or space.

Few countries possess hypersonic ballistic missiles and are involved in the development of other hypersonic weapon systems. For instance, the Kh-47M2 Kinzhal is a hypersonic air launched ballistic missile system introduced into operational service in December 2017. It was among the six new strategic weapons revealed by Russian President Vladimir Putin in March 2018. Moreover, increased investment in hypersonic missile programs has been driven by heightened strategic competition among major powers such as the U.S., Russia, and China. Nations are pursuing the development of advanced hypersonic weapons to uphold or bolster their military capabilities and to deter potential adversaries. Such factors are expected to drive the growth of the hypersonic ballistic missiles market during the forecast period.

Short-range hypersonic missiles are primarily intended for tactical use, where the targets are located within relatively close proximity to the launch platform. They are often deployed to address immediate threats or to support ground troops in combat scenarios. Some aerospace and defense companies have started the development of hypersonic missiles with short range. For instance, Brahmos Aerospace, joint venture between Defense Research & Development Organization (DRDO) of India and Military Industry Consortium NPO Mashinostroyeniya of Russia, is working on the development of BrahMos-II, a hypersonic cruise missile, which is expected to have a range of 600 km. The short-range segment within the hypersonic missiles market addresses the demand for swift, accurate, and adaptable strike capabilities.

The Asia-Pacific hypersonic missiles market is analyzed across China, India, Australia, and North Korea. China has made significant investments in the R&D of hypersonic missiles, with the goal of bolstering its military capabilities and exerting influence in the region. Through successful tests of hypersonic missiles like the DF-17 and DF-100, China has showcased its dedication to advancing this technology. Similarly, India is actively pursuing hypersonic missile technology as part of its comprehensive defense modernization initiatives.

North Korea has further expressed interest in hypersonic missile technology as a means to strengthen its military capabilities and deterrence strategies. Australia has been

actively involved in developing hypersonic missile technology, particularly through collaborations with the U.S. In September 2022, the US Air Force chose Raytheon and Northrop Grumman to develop the Hypersonic Attack Cruise Missile (HACM). This project, part of the Australia-US SCIFiRE initiative, aims to create a scramjet-powered hypersonic cruise missile for the Royal Australian Air Force. It's a major step in advancing high-speed long-range strike capabilities and missile defense, with significant investment from Australia's Force Structure Plan.

This selection highlights the importance of international collaboration in advancing military technology

For the purpose of analysis, the hypersonic missile market scope covers segmentation based on type, range, end user, launch platform, and region. The report provides information about various types of hypersonic missiles such as hypersonic boost glide missile, hypersonic cruise missile, and hypersonic ballistic missile. In addition, it highlights the details about the range of hypersonic missiles, including short range, medium range, and long range. Furthermore, army, navy, and air force are the key end users covered in the study. Moreover, it comprises the details about various launch platforms such as ground launch, air launch, and sea launch. Moreover, it analyzes the current market trends of hypersonic missiles across different regions such as North America, Europe, Asia-Pacific, and MEA and suggests future growth opportunities.

Key players profiled in the report include Lockheed Martin Corporation, Raytheon Technologies Corporation, Northrop Grumman Corporation, L3Harris Technologies, Inc., Leidos, BrahMos Aerospace, Kratos Defense & Security Solutions, Inc., BAE systems, Rostec, and Israel Aerospace Industries.

KEY BENEFITS FOR STAKEHOLDERS

This study presents analytical depiction of the hypersonic missile analysis along with current trends and future estimations to depict imminent investment pockets.

The overall hypersonic missile opportunity is determined by understanding profitable trends to gain a stronger foothold.

The report presents information related to the key drivers, restraints, and opportunities of the hypersonic missile with a detailed impact analysis.

The current hypersonic missile is quantitatively analyzed from 2023 to 2032 benchmark the financial competency.

Porter's five forces analysis illustrates the potency of the buyers and suppliers in the industry.

KEY MARKET SEGMENTS

By Type

Hypersonic Boost Glide Missile

Hypersonic Cruise Missile

Hypersonic Ballistic Missile

By Range

Short Range

Medium Range

Long Range

By End User

Army

Navy

Air Force

By Launch Platform

Ground Launch

Air Launch

Sea Launch

By Region

North America

U.S.

Europe

Russia

France

Asia-Pacific

China

India

Australia

North Korea

Middle East and Africa

Israel

KEY PLAYERS

Lockheed Martin Corporation

Raytheon Technologies Corporation

Northrop Grumman Corporation

L3Harris Technologies, Inc.

Leidos

BrahMos Aerospace

Kratos Defense & Security Solutions, Inc.

BAE systems

Rostec

Israel Aerospace Industries

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