

Metallic Glass Market Size, Share & Trends Analysis Report By End Use (Automotive & Mobility, Consumer & Precision Products, Industrial & Energy Equipment), By Product (Bulk Metallic Glass, Amorphous Metal Ribbons), By Region, And Segment Forecasts, 2026 - 2033

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Abstracts

Metallic Glass Market Summary

The global metallic glass market size was valued at USD 1.9 billion in 2025 and is projected to reach USD 3.1 billion by 2033, growing at a CAGR of 6.5% from 2026 to 2033. Growth is driven by increasing demand across automotive & mobility, medical & healthcare, consumer & precision products, and electrical & electronics, particularly in applications linked to EVs, renewable energy infrastructure, and advanced industrial manufacturing.

Additionally, rising investments in energy-efficient transformer materials, advanced alloy development, and scalable manufacturing technologies are supporting the long-term expansion of the market.

The industry is gaining sustainability relevance due to its contribution to material efficiency and reduced operational losses in high-performance applications. Metallic glasses possess high strength-to-weight ratios and enhanced fatigue resistance, enabling manufacturers to reduce material usage while maintaining structural performance. Their application in compact electronic devices and lightweight industrial components supports lower resource consumption and improved operational efficiency. In addition, the long service life and resistance to chemical degradation of amorphous

alloys help reduce maintenance requirements and replacement cycles, supporting sustainable manufacturing practices across electronics, energy, and industrial equipment sectors.

Technological advancement in the industry is focused on microfabrication, nanostructured alloy engineering, and precision component manufacturing. Researchers and manufacturers are developing new zirconium-, iron-, and magnesium-based amorphous alloys with improved thermal stability and formability for next-generation applications. The material's unique ability to combine metal-like strength with glass-like molding characteristics is driving adoption in miniaturized sensors, MEMS devices, and precision medical instruments. Furthermore, advancements in high-throughput casting, laser processing, and hybrid material integration are enabling improved production consistency and expanding the commercial feasibility of metallic glass across complex engineering applications.

Global Metallic Glass Market Report Segmentation

This report forecasts revenue growth at the global, regional, and country levels and analyzes the latest trends in each of the sub-segments from 2021 to 2033. For this study, Grand View Research has segmented the global metallic glass market report by end use, product, and region.

End Use Outlook (Revenue, USD Million, 2021 - 2033)

Electrical & Electronics

Automotive & Mobility

Industrial & Energy Equipment

Medical & Healthcare

Consumer & Precision Products

Others

Product Outlook (Revenue, USD Million, 2021 - 2033)

Bulk Metallic Glass (BMG)

Amorphous Metal Ribbons

Metallic Glass Powders

Polymer

Regional Outlook (Revenue, USD Million, 2021 - 2033)

North America

U.S.

Canada

Mexico

Europe

Germany

France

UK

Italy

Asia Pacific

China

India

Japan

Indonesia

South Korea

Latin America

Brazil

Middle East & Africa

Saudi Arabia

UAE

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