

Powder Metallurgy & Sintering Market Forecasts to 2034 - Global Analysis By Product Form (Structural Components, Bearings & Filters, Magnets, Cutting Tools & Wear Parts, Engine & Automotive Parts and Aerospace Components), Material Type, Process, End User and By Geography

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Abstracts

According to Statistics MRC, the Global Powder Metallurgy & Sintering Market is accounted for \$26.4 billion in 2026 and is expected to reach \$37.8 billion by 2034 growing at a CAGR of 4.6% during the forecast period. Powder Metallurgy & Sintering refers to a specialized manufacturing technique where metal powders are shaped through compression and subsequently heated to form durable components without completely melting the material. The process offers high dimensional accuracy, reduced production waste, and the ability to manufacture intricate parts that are difficult to achieve through traditional methods. It finds applications across automotive, aerospace, healthcare, electronics, and industrial sectors because of its efficiency and versatility. Increasing emphasis on resource-efficient production, lightweight designs, and advanced material development is driving the wider use of powder metallurgy and sintering solutions in various industries.

According to the World Steel Association, global crude steel production reached approximately 1.89 billion tonnes in 2023, highlighting the large and expanding availability of steel-based raw materials that support powder metallurgy applications, including ferrous metal powders used in automotive, industrial, and engineering components.

Market Dynamics:

Driver:**Rising demand for lightweight and high-performance components**

Growing requirements for lightweight, durable, and efficient components in industries such as automotive, aerospace, and manufacturing are accelerating the adoption of powder metallurgy and sintering technologies. These processes enable producers to manufacture intricate parts with excellent strength-to-weight ratios, optimized performance, and reduced material consumption. Compared with traditional production methods, powder metallurgy offers better resource utilization and supports innovative component designs. Increasing investments in electric mobility, energy-efficient systems, and advanced industrial equipment are further increasing the demand for these technologies.

Restraint:**High initial investment and equipment costs**

The substantial capital required for establishing powder metallurgy and sintering facilities acts as a major limitation for market expansion. Manufacturing companies need to invest heavily in specialized equipment, advanced tooling, powder preparation units, and high-temperature sintering systems. Smaller enterprises may find it difficult to justify these expenses due to limited production capacity and uncertain returns on investment. These economic challenges may discourage some manufacturers from adopting powder-based production methods, restricting wider implementation of powder metallurgy and sintering technologies in various industries and slowing market penetration.

Opportunity:**Growing adoption in electric vehicles and advanced mobility applications**

The rapid expansion of electric mobility and next-generation transportation systems is creating promising growth opportunities for powder metallurgy and sintering technologies. Electric vehicle producers are seeking manufacturing methods that deliver lightweight, strong, and highly efficient components to enhance overall vehicle performance. Powder-based processes support the development of precision automotive parts, including drivetrain components, bearings, and specialized magnetic

materials. With the automotive sector increasingly focusing on electrification, sustainability, and improved energy efficiency, the demand for advanced manufacturing solutions is rising.

Threat:

Competition from alternative manufacturing technologies

Increasing adoption of competing manufacturing approaches creates challenges for the growth of the Powder Metallurgy & Sintering Market. Technologies including 3D printing, advanced machining, and modern casting processes are evolving rapidly by providing improved customization, production speed, and material performance. Some industries may prefer these alternatives when manufacturing highly complex or specialized components that require greater flexibility. The rising availability of substitute technologies could reduce dependence on powder metallurgy solutions in certain applications. To remain competitive, market participants need to enhance process capabilities, invest in innovation, and develop advanced powder-based manufacturing techniques that address changing industry requirements and maintain their market position.

Covid-19 Impact:

The outbreak of COVID-19 created significant challenges for the Powder Metallurgy & Sintering Market by interrupting production activities, global supply networks, and industrial demand. Reduced operations in key sectors such as automotive, aerospace, and machinery affected the requirement for powder-based components during the initial pandemic period. Manufacturing delays, logistics restrictions, and labour shortages further impacted material availability and operational efficiency. As economic activities recovered, industries restarted production and increased their focus on reliable and efficient manufacturing technologies. The pandemic highlighted the importance of flexible supply chains, automation, and resource-efficient processes, which contributed to renewed interest in powder metallurgy and sintering solutions.

The engine & automotive parts segment is expected to be the largest during the forecast period

The engine & automotive parts segment is expected to account for the largest market share during the forecast period because of the widespread application of powder manufacturing techniques in vehicle production. This process supports the creation of

strong, lightweight, and accurately designed components required for modern automobiles. Powder metallurgy is utilized for producing various automotive elements, including gears, transmission systems, engine components, and other critical assemblies. Its advantages in achieving intricate shapes, enhancing material utilization, and improving manufacturing efficiency make it an essential technology for automotive industries.

The medical & dental segment is expected to have the highest CAGR during the forecast period

Over the forecast period, the medical & dental segment is predicted to witness the highest growth rate, supported by the rising requirement for high-precision and healthcare-focused components. Powder-based manufacturing processes allow the creation of customized implants, dental parts, surgical tools, and specialized medical devices with improved strength, durability, and compatibility. These technologies help manufacturers produce complex designs while meeting demanding quality standards in healthcare applications. Continuous innovation in medical equipment, growing preference for personalized treatment solutions, and advancements in healthcare engineering are driving greater adoption of powder metallurgy and sintering techniques within medical and dental sectors.

Region with largest share:

During the forecast period, the Asia-Pacific region is expected to hold the largest market share, supported by the rapid development of automotive, electronics, machinery, and industrial manufacturing sectors. Major economies including China, Japan, India, and South Korea are contributing significantly through advanced production facilities and growing adoption of modern manufacturing processes. The region is experiencing increased demand for lightweight components, precision-engineered parts, and efficient production methods across multiple industries. Favourable manufacturing conditions, improving infrastructure, skilled workforce availability, and technological progress are further strengthening market expansion.

Region with highest CAGR:

Over the forecast period, the North America region is anticipated to exhibit the highest CAGR, supported by the increasing implementation of advanced production techniques in automotive, aerospace, healthcare, and industrial applications. The growing need for lightweight, durable, and resource-efficient components is accelerating the adoption of

powder-based manufacturing processes. Expanding electric vehicle development, aerospace modernization, and precision manufacturing activities are creating new opportunities for market growth. Furthermore, strong technological capabilities, established industry players, and rising interest in sustainable manufacturing approaches are contributing to regional development.

Key players in the market

Some of the key players in Powder Metallurgy & Sintering Market include GKN Powder Metallurgy, H?gan?s AB, Sumitomo Electric Industries, Ltd., Miba Group, Schunk Sinter Metals, AMES Group, Hitachi Chemical Company, Fine Sinter, PMG Holding, Carpenter Technology, Porite, Allegheny Technologies Incorporated, Burgess-Norton, American Axle & Manufacturing (AAM), Diamet, Shanghai Automotive Powder Metallurgy, BASF SE and Sandvik AB.

Key Developments:

In October 2025, BASF SE and ANDRITZ Group have signed a license agreement for the use of BASF's proprietary gas treatment technology, OASE® blue, in a carbon capture project planned to be implemented in the city of Aarhus, Denmark. The project aims to capture approximately 435,000 tons of CO2 annually from the flue gases of a waste-to-energy plant for sequestration; the city of Aarhus has set itself the goal of becoming CO2-neutral by 2030.

In June 2025, Sandvik AB and Additive Industries have announced a new metal powder supply partnership for the direct filling of Additive Industries' Powder Load Tool (PLT), a powder hopper system designed for use with the company's MetalFab Additive Manufacturing machines.

In March 2025, Sumitomo Electric Industries, Ltd. (Sumitomo Electric), and 3M announce an assembler agreement enabling Sumitomo Electric to offer variety of optical fiber connectivity products featuring 3M™ Expanded Beam Optical (EBO) Interconnect technology, a high-performance solution to meet scalability needs of next-generation data centers and advanced network architectures.

Product Forms Covered:

Structural Components

Bearings & Filters

Magnets

Cutting Tools & Wear Parts

Engine & Automotive Parts

Aerospace Components

Material Types Covered:

Ferrous Metals

Non-Ferrous Metals

Precious Metals

Advanced Materials

Processes Covered:

Press & Sinter

Metal Injection Molding (MIM)

Hot Isostatic Pressing (HIP)

Additive Manufacturing

Other Processes

End Users Covered:

Automotive

Aerospace & Defense

Electrical & Electronics

Industrial Machinery

Medical & Dental

Energy

Regions Covered:

North America

United States

Canada

Mexico

Europe

United Kingdom

Germany

France

Italy

Spain

Netherlands

Belgium

Sweden

Switzerland

Poland

Rest of Europe

Asia Pacific

China

Japan

India

South Korea

Australia

Indonesia

Thailand

Malaysia

Singapore

Vietnam

Rest of Asia Pacific

South America

Brazil

Argentina

Colombia

Chile

Peru

Rest of South America

Rest of the World (RoW)

Middle East

Saudi Arabia

United Arab Emirates

Qatar

Israel

Rest of Middle East

Africa

South Africa

Egypt

Morocco

Rest of Africa

What our report offers:

Market share assessments for the regional and country-level segments

Strategic recommendations for the new entrants

Covers Market data for the years 2023, 2024, 2025, 2026, 2027, 2028, 2030, 2032 and 2034

Market Trends (Drivers, Constraints, Opportunities, Threats, Challenges, Investment Opportunities, and recommendations)

Strategic recommendations in key business segments based on the market estimations

Competitive landscaping mapping the key common trends

Company profiling with detailed strategies, financials, and recent developments

Supply chain trends mapping the latest technological advancements

Free Customization Offerings:

All the customers of this report will be entitled to receive one of the following free customization options:

Company Profiling

Comprehensive profiling of additional market players (up to 3)

SWOT Analysis of key players (up to 3)

Regional Segmentation

Market estimations, Forecasts and CAGR of any prominent country as per the client's interest (Note: Depends on feasibility check)

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