

Global Powder Metallurgy Market Outlook to 2027

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Abstracts

Powder Metallurgy is a metal-forming process performed by heating compacted metal powders just below their melting point, greatly reducing the need to use metal removal processes, thereby drastically reducing yield losses in manufacture and often resulting in lower costs. According to BlueQuark Research & Consulting, the global Powder Metallurgy market is expected to witness a significant growth rate during the forecasted period. Factors like the increasing demand for Powder Metallurgy from the automotive industry due to its ability to be mass-produced at a cheap rate are expected to drive the global Powder Metallurgy market. Further, the increasing demand for Powder Metallurgy in the medical and health care industry for manufacturing of surgical implants is expected to propel the future Powder Metallurgy market. Moreover, the surging demand for Powder Metallurgy in the electronics industry due to its ability to be mass-produced electrical components such as cell phones and tablets is expected to drive the global Powder Metallurgy market. However, factors like high capital requirement coupled with complexity in manufacturing 3D shapes are restraining the growth of the global powder metallurgy market.

Powder metallurgy is used to manufacture automotive parts such as steering components, transmission components, connecting rods, main bearing caps, fuel system components, engine components, etc.

The Primary use of Powder Metallurgy is in the Automotive Industry. There has been a remarkable increase in the usage of Powder Metallurgy in the Automotive industry due to its additional benefits over forging and other conventional methods such as exceptional durability, lightweight, and the ability to be customized to meet the versatility, thereby driving the global Powder Metallurgy market. Further, factors like ability of Powder metallurgical component to mass-produce reliable precision parts consistently at a cheap rate is projected to drive the global market for Powder Metallurgy in the Automotive Industry. Furthermore, Powder Metallurgy consumes only

around 43% of the energy as compared with forging and machining used to manufacture a truck transmission. The United States has established an extensive network of automotive parts suppliers that serves the industry, supporting almost 600,000 jobs in the country. The demand for vehicles is expected to surge in the forecasted years. Moreover, factors like the increasing electric vehicle market, global green revolution, urbanization, growing metropolitan cities are estimated to drive the growth of the Powder Metallurgy Market. These are the factors projected to drive the growth of the Global Powder Metallurgy market.

Some of the market's key players are Arcam AB, Catalus Corporation, Precision Sintered Parts, Clarion Sintered Metals, GKN Plc, and Miba AG, among others.

The Asia-Pacific region is expected to be a market leader in the future as it is one of the fastest-growing markets for Powder Metallurgy. Factors like increasing population, increase in growing income families, young population, and demand in the domestic and regional markets have elevated the demand for Powder Metallurgy in these regions, thereby driving the market in the Asia-Pacific region. China and India are the primary consumers in Asia-Pacific Region, with China holding a large economic GDP. Further, this unprecedented growth has resulted in Asia-Pacific emerging as a leader in automotive vehicle manufacturing, shifting the manufacturing hub from the west to the east in the last decade. Moreover, the Powder metallurgy process is extensively used to produce controlled porous structures, such as porous coatings applied for dental and orthopedic surgical implants, allowing bony tissue ingrowth within the implant surface, resulting in increased usage of Powder Metallurgy. The medical industry requires materials that are human body compatible, non-corrosive, and have a high wear resistance which the conventional methods don't provide. Factors like these have made Asia-Pacific an essential scope for the global Powder Metallurgy market.

In Sept 2021, the semiconductor shortage in the automotive industry is affecting the performance of the GKN Automotive and GKN Powder Metallurgy division.

In Oct 2021, GKN Hydrogen, a division of GKN Powder Metallurgy, to be a part of the U.S. Department of Energy.

Global Powder Metallurgy Market report provides deep insight into the Industrial market's current and future state across various regions. The study comprehensively analyses the Powder Metallurgy market by segmenting based by Material Type (Copper, Aluminum, Magnesium, Titanium, Iron & Others), by End-User Type (Automotive, Medical & Healthcare, Aviation, Electronics & Others). The report

examines the market drivers and restraints and the impact of Covid-19 on the market growth in detail. The study covers and includes emerging market trends, developments, opportunities, and challenges in the industry. This report also covers extensively researched competitive landscape sections with prominent companies and profiles, including their market shares and projects.

Contents

1. Executive Summary

2. Research Scope and Methodology

- 2.1 Aim & Objective of the study
- 2.2 Market Definition
- 2.3 Study Information
- 2.4 General Study Assumptions
- 2.5 Research Phases

3. Market Analysis

- 3.1 Introduction
- 3.2 Market Dynamics
 - 3.2.1 Drivers
 - 3.2.2 Restraints
- 3.3 Market Trends & Developments
- 3.4 Market Opportunities
- 3.5 Regulatory Policies
- 3.6 Analysis of Covid-19 Impact

4. Industry Analysis

- 4.1 Supply Chain Analysis
- 4.2 Porter's Five Forces Analysis
 - 4.2.1 Competition in the Industry
 - 4.2.2 Potential of New Entrants into the Industry
 - 4.2.3 Bargaining Power of Suppliers
 - 4.2.4 Bargaining Power of Consumers
 - 4.2.5 Threat of substitute products

5. Market Segmentation & Forecast

- 5.1 By Material
 - 5.1.1 Copper
 - 5.1.2 Aluminum
 - 5.1.3 Magnesium
 - 5.1.4 Titanium
 - 5.1.5 Iron
 - 5.1.6 Others

5.2 By End-User

- 5.2.1 Automotive
- 5.2.2 Medical & Healthcare
- 5.2.3 Aviation
- 5.2.4 Electronics
- 5.2.5 Others

Regional Market Analysis

6.1 North America

- 6.1.1 United States
- 6.1.2 Canada
- 6.1.3 Mexico

6.2 Europe

- 6.2.1 Germany
- 6.2.2 United Kingdom
- 6.2.3 Italy
- 6.2.4 France
- 6.2.5 Spain
- 6.2.6 Rest of Europe

6.3 Asia-Pacific

- 6.3.1 China
- 6.3.2 India
- 6.3.3 Japan
- 6.3.4 South Korea
- 6.3.5 Rest of Asia-Pacific

6.4 South America

- 6.4.1 Brazil
- 6.4.2 Argentina
- 6.4.3 Rest of South America

6.5 Middle East & Africa

- 6.5.1 South Africa
- 6.5.2 Saudi Arabia
- 6.5.3 Rest of Middle East & Africa

Company Profiles

3

Corporation

Sintered Parts

Sintered Metals Inc

Powdered Metals Inc

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mbH

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AB

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Competitive Landscape

of Notable Players in the Market

A, JV, and Agreements

Market Share Analysis

Strategies of Key Players

Conclusions and Recommendations

List Of Tables

LIST OF TABLES

Global Powder Metallurgy Market Size, Market Growth & Market Forecast Revenue (in USD Millions), 2016-2026

North America Powder Metallurgy Market Size, Market Growth & Market Forecast Revenue (in USD Millions), 2016-2026

United States Powder Metallurgy Market Size, Market Growth & Market Forecast Revenue (in USD Millions), 2016-2026

Canada Powder Metallurgy Market Size, Market Growth & Market Forecast Revenue (in USD Millions), 2016-2026

Mexico Powder Metallurgy Market Size, Market Growth & Market Forecast Revenue (in USD Millions), 2016-2026

Europe Powder Metallurgy Market Size, Market Growth & Market Forecast Revenue (in USD Millions), 2016-2026

United Kingdom Powder Metallurgy Market Size, Market Growth & Market Forecast Revenue (in USD Millions), 2016-2026

Germany Powder Metallurgy Market Size, Market Growth & Market Forecast Revenue (in USD Millions), 2016-2026

Italy Powder Metallurgy Market Size, Market Growth & Market Forecast Revenue (in USD Millions), 2016-2026

France Powder Metallurgy Market Size, Market Growth & Market Forecast Revenue (in USD Millions), 2016-2026

Other Supporting Charts

Rest of Europe Powder Metallurgy Market Size, Market Growth & Market Forecast Revenue (in USD Millions), 2016-2026

South America Powder Metallurgy Market Size, Market Growth & Market Forecast Revenue (in USD Millions), 2016-2026

Brazil Powder Metallurgy Market Size, Market Growth & Market Forecast Revenue (in USD Millions), 2016-2026

Argentina Powder Metallurgy Market Size, Market Growth & Market Forecast Revenue (in USD Millions), 2016-2026

Rest of South America Powder Metallurgy Market Size, Market Growth & Market Forecast Revenue (in USD Millions), 2016-2026

Asia-Pacific Powder Metallurgy Market Size, Market Growth & Market Forecast Revenue (in USD Millions), 2016-2026

China Powder Metallurgy Market Size, Market Growth & Market Forecast Revenue (in USD Millions), 2016-2026

India Powder Metallurgy Market Size, Market Growth & Market Forecast Revenue (in USD Millions), 2016-2026

Japan Powder Metallurgy Market Size, Market Growth & Market Forecast Revenue (in USD Millions), 2016-2026

South Korea Powder Metallurgy Market Size, Market Growth & Market Forecast Revenue (in USD Millions), 2016-2026

Rest of Asia-Pacific Powder Metallurgy Market Size, Market Growth & Market Forecast Revenue (in USD Millions), 2016-2026

Middle East & Africa Powder Metallurgy Market Size, Market Growth & Market Forecast Revenue (in USD Millions), 2016-2026

Saudi Arabia Powder Metallurgy Market Size, Market Growth & Market Forecast Revenue (in USD Millions), 2016-2026

South Africa Powder Metallurgy Market Size, Market Growth & Market Forecast Revenue (in USD Millions), 2016-2026

Rest of Middle-East & Africa Powder Metallurgy Market Size, Market Growth & Market Forecast Revenue (in USD Millions), 2016-2026

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