

Powder Metallurgy – A Global Market Overview

<https://marketpublishers.com/r/PBCAEF830A3EN.html>

Date: September 2022

Pages: 365

Price: US\$ 4,860.00 (Single User License)

ID: PBCAEF830A3EN

Abstracts

REPORT SYNOPSIS

Powder Metallurgy is a technique utilized for processing powdered raw materials and producing a variety of components based on iron & steel powders (ferrous) and aluminum, cobalt, copper, nickel and titanium, among others (non-ferrous). The components made using powder metallurgy are very strong and can withstand working environments that conventionally produced parts cannot. The demand for this procedure has been exhibiting quite impressive growth over the recent past, though the advent of COVID-19 has changed the scenario to some extent.

The global demand for Powder Metallurgy components and parts is anticipated to be the largest for the Automotive sector, though the fastest growing for the Aerospace sector. Advancements in material technology have enabled in producing metal powders that can act as replacements for traditionally used bulky metal components to reduce space and weight, thereby enhancing efficiency of the final product in its applicable area.

Research Findings & Coverage

Powder Metallurgy global market is explored in this report with respect to metal types and key applications

The study extensively analyzes each metal type and key application of powder metallurgy in all major regions for the analysis period

Powder Metallurgy's Green Credentials Expand the Technology's Adoption

Studies on Flake Powder Metallurgy (FPM), an Emerging Technology, Show

Good Prospects

Powder Metallurgy Set to Gain Traction in Medicine

3D Printing to Revolutionize Powder Metallurgy but Challenges Remain

Key business trends focusing on product innovations/developments, M&As, JVs and other recent industry developments

Major companies profiled – 34

The industry guide includes the contact details for 272 companies

PRODUCT OUTLINE

The report analyzes the market for key metal types of Powder Metallurgy including:

Ferrous

Iron Powder

Steel Powder

Non-Ferrous

Aluminum

Cobalt

Copper

Nickel

Titanium

Other Non-Ferrous Metals

Application Areas of Powder Metallurgy analyzed comprise the following:

Aerospace

Automotive

Electrical & Electronics

Industrial Machinery

Medical

Others

Analysis Period, Units and Growth Rates

The report reviews, analyzes and projects the global Powder Metallurgy market for the period 2018-2027 in terms of market value in US\$ and the compound annual growth rates (CAGRs) projected from 2022 through 2027

Geographic Coverage

North America (The United States, Canada and Mexico)

Europe (France, Germany, Italy, Russia, Spain, the United Kingdom and Rest of Europe)

Asia-Pacific (China, India, Japan, South Korea and Rest of Asia-Pacific)

South America (Argentina, Brazil and Rest of South America)

Rest of World

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American Chemet Corporation (United States)

Royal Metal Powders, Inc. (United States)

AMETEK, Inc. (United States)

AMETEK Specialty Metal Products (United States)

AMETEK Specialty Metal Products Eighty Four (United States)

BASF SE (Germany)

Carl Schlenk AG (Germany)

Carpenter Technology Corp (United States)

Daido Steel Co Ltd. (Japan)

Fine Sinter Co Ltd (Japan)

Fukuda Metal Foil & Powder Co., Ltd. (Japan)

GKN Powder Metallurgy (United States)

GKN Hoeganaes (United States)

H.C. Starck GmbH (H.C. Starck Tungsten Powders) (Germany)

H.C. Starck Solutions (United States)

Hoganas AB (Sweden)

Kennametal Inc. (United States)

Kobe Steel, Ltd. (Japan)
Kymera International (United States)
Makin Metal Powders (UK) Ltd. (United Kingdom)
Miba AG (Austria)
Molyworks Materials Corp (United States)
Oerlikon Metco Switzerland (Switzerland)
Pometon S.p.A (Italy)
Rio Tinto Metal Powders (Canada)
Sandvik AB (Sweden)
Sandvik Materials Technology (Sweden)
Showa Denko Materials Co Ltd (Japan)
Sumitomo Electric Industries Ltd (Japan)

4. KEY BUSINESS & PRODUCT TRENDS

Allegheny Technologies Incorporated | ATI Completes Sale of Sheffield, UK Operation
Hoganas to close Hoganas Environment Solutions, LLC. to focus on its core business |
Hoganas

Miba: Miba acquires majority interest in battery specialist Voltlabor - Growth to be
further accelerated under new name "Miba Battery Systems"

Sandvik to acquire Spain-based Preziss, a solutions provider for aluminum and
composite machining — Sandvik Group

Sandvik to acquire US based custom tooling manufacturer Peterson Tool Company —
Sandvik Group

Hoganas now offers titanium powders for additive manufacturing | Hoganas

Sandvik introduces 3D-printed cemented carbide — Sandvik Group

Materials authority Sandvik introduces 3D printed components in cemented carbide –
enabled by patented process — Sandvik Additive Manufacturing

Allegheny Technologies Incorporated | ATI Announces Termination of Joint Venture
with Russian-Based VSMPO

University of Waterloo and Rio Tinto look to water atomised powder for low-cost Binder
Jetting

Sandvik co-launches guidelines for testing additively manufactured stainless steels —
Sandvik Additive Manufacturing

Hoganas joins the Additive Manufacturing Green Trade Association as a founding
member | Hoganas

News: POLEMA doubles the output of AM metal powders in 2021 (polema-rus.com)

A partnership between Hoganas and Piab is set to make additive manufacturing more
sustainable and efficient | Hoganas

News: POLEMA supplied products for a thermonuclear reactor in France
Announcement of the Contract Conclusion to Transfer Showa Denko Materials'
Ceramics Business
Showa Denko Materials Develops Its Own MI Platform for Functional Materials to Offer
Speedy Materials Recommendations
Sandvik increases manufacturing capacity in metal powders for Additive Manufacturing
— Sandvik Additive Manufacturing
Showa Denko Materials' Anode Materials for Lithium-ion Batteries Adopted for
Toyota's New "Aqua"
GaN Semiconductors are Enabling New X-band Radars | Sumitomo Electric Industries
Hoganas expands production capabilities in Laufenburg | Hoganas
Hoganas closes its production in Niagara Falls, USA due to hydrogen gas supply
shortage | Hoganas
Showa Denko Materials Establishes the "JOINT2" Consortium for
Showa Denko Materials to Launch the Mass Production of "MCL-E-795G,"
H.C. Starck Tungsten patents an innovative reverse osmosis process | H.C. Starck
Tungsten Powders
First Swedish plant with large-scale water treatment using by-products from the steel
industry | Hoganas
Hoganas settles supply agreement with US-based KBM Advanced Materials that
launches new sales platform for additive manufacturing powder | Hoganas
Hoganas' fine powder atomisation building in Johnstown supports the growing demand
for high alloy products | Hoganas
News: POLEMA increased the production output in the first half of 2021
GKN Additive develops 3D printing process for low alloy dual-phase steels DPLA and
FSLA
Miba: Miba sputter technology is awarded Supplier Gold certification by Pratt and
Whitney
News: POLEMA has mastered new powder grades for AM and weld-deposition
Rio Tinto develops new water atomised steel powder
Announcement of Transfer of Printed Wiring Board Business
Rio Tinto develops new steel powder for 3-D printing
Announcement of Acquiring 100% Ownership of Hitachi Chemical Diagnostics System
Allegheny Technologies Incorporated | ATI Completes Sale of Flowform Products to
Consolidated Boring, Inc.
Miba: Miba products for medical devices
News: POLEMA became the first Russian supplier of powders for 3D printing of ship
and aircraft engine parts
Experience Refractory Metals Innovations in a Brand-New Virtual Environment

(hcstarcksolutions.com)

Showa Denko Materials to Boost Its Production Capacity for CMP Slurries, Laminate Materials for Printed Wiring Boards, and Photosensitive Solder Resists in Taiwan

Hoganas lands major Cleanit EC test project in China | Hoganas

Hoganas and Lincotek sign cooperation agreement | Hoganas

Hoganas launches powder mix

FORECAST 3D reaches 1 million shipped nasal swab milestone for COVID-19 testing

GKN Powder Metallurgy business FORECAST 3D launches face shields, stopgap masks, nasal swabs, and other critical PPE products to battle COVID-19

FORECAST 3D partners with specialty chemicals expert Lubrizol to industrialize 3D applications through thermoplastic powder (gknpm.com)

GKN Powder Metallurgy Acquires FORECAST 3D, Expands Additive Manufacturing Capabilities to Include Plastics (gknpm.com)

Sumitomo Electric Acquires Two Companies of European Powdered Metal Components Manufacturer Sinterwerke Group

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Allegheny Technologies, Inc. (United States)

American Chemet Corporation (United States)

Royal Metal Powders, Inc. (United States)

AMETEK, Inc. (United States)

AMETEK Specialty Metal Products (United States)

AMETEK Specialty Metal Products Eighty Four (United States)

Carpenter Technology Corp (United States)

GKN Hoeganaes (United States)

GKN Powder Metallurgy (United States)

H.C. Starck Solutions (United States)

Kennametal Inc. (United States)

KYMERA International (United States)

Molyworks Materials Corp (United States)

RIO Tinto Metal Powders (Canada)

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7.4 Major Market Players

BASF SE (Germany)

Carl Schlenk AG (Germany)

H.C. Starck GmbH (H.C. Starck Tungsten Powders) (Germany)

Hoganas AB (Sweden)

Makin Metal Powders (UK) Ltd. (United Kingdom)

MIBA AG (Austria)

Oerlikon Metco Switzerland (Switzerland)

Polema JSC (Russia)

Pometon SpA (Italy)

Sandvik AB (Sweden)

Sandvik Materials Technology (Sweden)

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 - Advanced Technology & Materials Co Ltd (AT&M) (China)
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