

3D Printing Powder Market Size, Share & Trends Analysis Report By Material Type (Metal Powders, Polymer Powders, Ceramic Powders), By Application (Aerospace, Automotive And Transportation, Healthcare, Industrial Manufacturing), By Region, And Segment Forecasts, 2025 - 2033

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Abstracts

Summary

The global 3D printing powder market size was estimated at USD 1.87 billion in 2024 and is projected to reach USD 5.33 billion by 2033, growing at a CAGR 12.3% from 2025 to 2033. The demand for 3D printing powders is rising due to the rapid adoption of additive manufacturing across aerospace, automotive, medical, and industrial sectors for lightweight, high-strength components.

Industries are shifting from prototyping to full-scale manufacturing, increasing the consumption of metal, polymer, and ceramic powders. Customization needs in medical implants and dental prosthetics are accelerating powder usage. The cost-efficiency and reduced material wastage associated with powder-based printing are also driving adoption. Growing interest in on-demand manufacturing is further strengthening demand. Advancements in printer capabilities are expanding the compatibility of new powder materials. Sustainability benefits, such as lower scrap rates, are supporting long-term market growth.

Key demand drivers include the increasing applications of metal AM powders, such as titanium, aluminum, and Inconel, in high-performance industries. The rise of electric vehicles is pushing OEMs to adopt AM for lightweight parts, boosting powder

consumption. Healthcare innovation is driving the usage of biocompatible powders for patient-specific implants. Defense and aerospace authorities are expanding AM qualification programs, creating a strong pipeline for powder suppliers. Growing investments in distributed manufacturing are increasing powder volumes globally. Improvements in powder recyclability are lowering costs and encouraging repeat usage. Expanding R&D for next-generation materials such as copper and refractory metal powders is supporting market momentum.

Advanced powder atomization technologies, such as plasma atomization and EIGA, are improving powder quality and consistency. Sustainable powder production using recycled feedstocks is gaining traction among manufacturers. The rise of multi-material and functionally graded materials is influencing the development of powder blends. Nanostructured powders and high-entropy alloy powders are emerging as high-performance AM materials. Automated powder handling and closed-loop systems are improving safety and reducing contamination. Customized powder formulations for high-speed binder jetting are accelerating the adoption of this technology. Increasing focus on powder reusability and lifecycle tracking is shaping future material standards.

Global 3D Printing Powder Market Report Segmentation

This report forecasts revenue growth at global, regional, and country levels and provides an analysis on the industry trends in each of the sub-segments from 2021 to 2033. For this study, Grand View Research has segmented the 3D printing powder market based on material type, application, and region:

Material Type Outlook (Revenue, USD Billion, 2021 - 2033)

Metal Powders

Polymer Powders

Ceramic Powders

Others

Application Outlook (Revenue, USD Billion, 2021 - 2033)

Aerospace

Automotive & Transportation

Healthcare

Industrial Manufacturing

Others

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

North America

U.S.

Canada

Mexico

Europe

UK

Germany

France

Spain

Asia Pacific

China

Japan

India

South Korea

Central & South America

Middle East & Africa

Saudi Arabia

UAE

Egypt

Qatar

Kuwait

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Contents

CHAPTER 1. METHODOLOGY AND SCOPE

- 1.1. Market Segmentation & Scope
- 1.2. Market Definition
- 1.3. Information Procurement
 - 1.3.1. Purchased Database
 - 1.3.2. GVR's Internal Database
 - 1.3.3. Secondary Sources
 - 1.3.4. Third-Party Perspectives
 - 1.3.5. Primary Research
- 1.4. Information Analysis
 - 1.4.1. Data Analysis Models
- 1.5. Market Formulation & Data Visualization
- 1.6. Data Validation and Publishing

CHAPTER 2. EXECUTIVE SUMMARY

- 2.1. Market Outlook
- 2.2. Segmental Outlook
- 2.3. Competitive Insights

CHAPTER 3. 3D PRINTING POWDERS MARKET VARIABLES, TRENDS & SCOPE

- 3.1. Value Chain Analysis
- 3.2. Regulatory Framework
- 3.3. Technology Overview
- 3.4. Market Dynamics
 - 3.4.1. Market driver analysis
 - 3.4.2. Market restraint analysis
 - 3.4.3. Industry opportunity
 - 3.4.4. Market Challenges
- 3.5. Business Environment Analysis
 - 3.5.1. Porter's Analysis
 - 3.5.1.1. Supplier Power
 - 3.5.1.2. Buyer Power
 - 3.5.1.3. Substitution Threat
 - 3.5.1.4. Threat from New Entrant

- 3.5.1.5. Competitive Rivalry
- 3.5.2. PESTEL Analysis, by SWOT
 - 3.5.2.1. Political Landscape
 - 3.5.2.2. Environmental Landscape
 - 3.5.2.3. Social Landscape
 - 3.5.2.4. Technology Landscape
 - 3.5.2.5. Economic Landscape
 - 3.5.2.6. Legal Landscape

CHAPTER 4. 3D PRINTING POWDERS MARKET: MATERIAL TYPE ESTIMATES & TREND ANALYSIS

- 4.1. Material Type Takeaways
- 4.2. Material Type Market Share Analysis, 2025 - 2033
- 4.3. 3D Printing Powders Market Estimates & Forecast, By Material Type 2021 - 2033 (USD Billion)
- 4.4. Metal Powders
 - 4.4.1. 3D Printing Powders Market Estimates & Forecast, By Metal Powders, 2021 - 2033 (USD Billion)
- 4.5. Polymer Powders
 - 4.5.1. 3D Printing Powders Market Estimates & Forecast, By Polymer Powders, 2021 - 2033 (USD Billion)
- 4.6. Ceramic Powders
 - 4.6.1. 3D Printing Powders Market Estimates & Forecast, By Ceramic Powders, 2021 - 2033 (USD Billion)
- 4.7. Others
 - 4.7.1. 3D Printing Powders Market Estimates & Forecast, By Others, 2021 - 2033 (USD Billion)

CHAPTER 5. 3D PRINTING POWDERS MARKET: APPLICATION ESTIMATES & TREND ANALYSIS

- 5.1. Application Takeaways
- 5.2. Application Market Share Analysis, 2025 - 2033
- 5.3. 3D Printing Powders Market Estimates & Forecast, By Application 2021 - 2033 (USD Billion)
- 5.4. Aerospace
 - 5.4.1. 3D Printing Powders Market Estimates & Forecast, For Aerospace, 2021 - 2033 (USD Billion)

5.5. Automotive and Transportation

5.5.1. 3D Printing Powders Market Estimates & Forecast, For Automotive and Transportation, 2021 - 2033 (USD Billion)

5.6. Healthcare

5.6.1. 3D Printing Powders Market Estimates & Forecast, For Healthcare, 2021 - 2033 (USD Billion)

5.7. Industrial Manufacturing

5.7.1. 3D Printing Powders Market Estimates & Forecast, For Industrial Manufacturing, 2021 - 2033 (USD Billion)

5.8. Others

5.8.1. 3D Printing Powders Market Estimates & Forecast, For Others, 2021 - 2033 (USD Billion)

CHAPTER 6. 3D PRINTING POWDERS MARKET: REGIONAL ESTIMATES & TREND ANALYSIS

6.1. Key Takeaways

6.2. Regional Market Share Analysis, 2025 - 2033

6.3. North America

6.3.1. North America 3D Printing Powders Market Estimates & Forecasts, 2021 - 2033 (USD Billion)

6.3.2. North America 3D Printing Powders Market Estimates & Forecasts, By Material Type, 2021 - 2033 (USD Billion)

6.3.3. North America 3D Printing Powders Market Estimates & Forecasts, By Application, 2021 - 2033 (USD Billion)

6.3.4. U.S.

6.3.4.1. U.S. 3D Printing Powders Market Estimates & Forecasts, 2021 - 2033 (USD Billion)

6.3.4.2. U.S. 3D Printing Powders Market Estimates & Forecasts, By Material Type, 2021 - 2033 (USD Billion)

6.3.4.3. U.S. 3D Printing Powders Market Estimates & Forecasts, By Application, 2021 - 2033 (USD Billion)

6.3.5. Canada

6.3.5.1. Canada 3D Printing Powders Market Estimates & Forecasts, 2021 - 2033 (USD Billion)

6.3.5.2. Canada 3D Printing Powders Market Estimates & Forecasts, By Material Type, 2021 - 2033 (USD Billion)

6.3.5.3. Canada 3D Printing Powders Market Estimates & Forecasts, By Application, 2021 - 2033 (USD Billion)

6.3.6. Mexico

6.3.6.1. Mexico 3D Printing Powders Market Estimates & Forecasts, 2021 - 2033
(USD Billion)

6.3.6.2. Mexico 3D Printing Powders Market Estimates & Forecasts, By Material
Type, 2021 - 2033 (USD Billion)

6.3.6.3. Mexico 3D Printing Powders Market Estimates & Forecasts, By Application,
2021 - 2033 (USD Billion)

6.4. Europe

6.4.1. Europe 3D Printing Powders Market Estimates & Forecasts, 2021 - 2033 (USD
Billion)

6.4.2. Europe 3D Printing Powders Market Estimates & Forecasts, By Material Type,
2021 - 2033 (USD Billion)

6.4.3. Europe 3D Printing Powders Market Estimates & Forecasts, By Application,
2021 - 2033 (USD Billion)

6.4.4. UK

6.4.4.1. UK 3D Printing Powders Market Estimates & Forecasts, 2021 - 2033 (USD
Billion)

6.4.4.2. UK 3D Printing Powders Market Estimates & Forecasts, By Material Type,
2021 - 2033 (USD Billion)

6.4.4.3. UK 3D Printing Powders Market Estimates & Forecasts, By Application, 2021
- 2033 (USD Billion)

6.4.5. Germany

6.4.5.1. Germany 3D Printing Powders Market Estimates & Forecasts, 2021 - 2033
(USD Billion)

6.4.5.2. Germany 3D Printing Powders Market Estimates & Forecasts, By Material
Type, 2021 - 2033 (USD Billion)

6.4.5.3. Germany 3D Printing Powders Market Estimates & Forecasts, By
Application, 2021 - 2033 (USD Billion)

6.4.6. France

6.4.6.1. France 3D Printing Powders Market Estimates & Forecasts, 2021 - 2033
(USD Billion)

6.4.6.2. France 3D Printing Powders Market Estimates & Forecasts, By Material
Type, 2021 - 2033 (USD Billion)

6.4.6.3. France 3D Printing Powders Market Estimates & Forecasts, By Application,
2021 - 2033 (USD Billion)

6.4.7. Spain

6.4.7.1. Spain 3D Printing Powders Market Estimates & Forecasts, 2021 - 2033 (USD
Billion)

6.4.7.2. Spain 3D Printing Powders Market Estimates & Forecasts, By Material Type,

2021 - 2033 (USD Billion)

6.4.7.3. Spain 3D Printing Powders Market Estimates & Forecasts, By Application, 2021 - 2033 (USD Billion)

6.5. Asia Pacific

6.5.1. Asia Pacific 3D Printing Powders Market Estimates & Forecasts, 2021 - 2033 (USD Billion)

6.5.2. Asia Pacific 3D Printing Powders Market Estimates & Forecasts, By Material Type, 2021 - 2033 (USD Billion)

6.5.3. Asia Pacific 3D Printing Powders Market Estimates & Forecasts, By Application, 2021 - 2033 (USD Billion)

6.5.4. China

6.5.4.1. China 3D Printing Powders Market Estimates & Forecasts, 2021 - 2033 (USD Billion)

6.5.4.2. China 3D Printing Powders Market Estimates & Forecasts, By Material Type, 2021 - 2033 (USD Billion)

6.5.4.3. China 3D Printing Powders Market Estimates & Forecasts, By Application, 2021 - 2033 (USD Billion)

6.5.5. Japan

6.5.5.1. Japan 3D Printing Powders Market Estimates & Forecasts, 2021 - 2033 (USD Billion)

6.5.5.2. Japan 3D Printing Powders Market Estimates & Forecasts, By Material Type, 2021 - 2033 (USD Billion)

6.5.5.3. Japan 3D Printing Powders Market Estimates & Forecasts, By Application, 2021 - 2033 (USD Billion)

6.5.6. India

6.5.6.1. India 3D Printing Powders Market Estimates & Forecasts, 2021 - 2033 (USD Billion)

6.5.6.2. India 3D Printing Powders Market Estimates & Forecasts, By Material Type, 2021 - 2033 (USD Billion)

6.5.6.3. India 3D Printing Powders Market Estimates & Forecasts, By Application, 2021 - 2033 (USD Billion)

6.5.7. South Korea

6.5.7.1. South Korea 3D Printing Powders Market Estimates & Forecasts, 2021 - 2033 (USD Billion)

6.5.7.2. South Korea 3D Printing Powders Market Estimates & Forecasts, By Material Type, 2021 - 2033 (USD Billion)

6.5.7.3. South Korea 3D Printing Powders Market Estimates & Forecasts, By Application, 2021 - 2033 (USD Billion)

6.6. Central & South America

6.6.1. Central & South America 3D Printing Powders Market Estimates & Forecasts, 2021 - 2033 (USD Billion)

6.6.2. Central & South America 3D Printing Powders Market Estimates & Forecasts, By Material Type, 2021 - 2033 (USD Billion)

6.6.3. Central & South America 3D Printing Powders Market Estimates & Forecasts, By Application, 2021 - 2033 (USD Billion)

6.7. Middle East & Africa

6.7.1. Middle East & Africa 3D Printing Powders Market Estimates & Forecasts, 2021 - 2033 (USD Billion)

6.7.2. Middle East & Africa 3D Printing Powders Market Estimates & Forecasts, By Material Type, 2021 - 2033 (USD Billion)

6.7.3. Middle East & Africa 3D Printing Powders Market Estimates & Forecasts, By Application, 2021 - 2033 (USD Billion)

6.7.4. Saudi Arabia

6.7.4.1. Saudi Arabia 3D Printing Powders Market Estimates & Forecasts, 2021 - 2033 (USD Billion)

6.7.4.2. Saudi Arabia 3D Printing Powders Market Estimates & Forecasts, By Material Type, 2021 - 2033 (USD Billion)

6.7.4.3. Saudi Arabia 3D Printing Powders Market Estimates & Forecasts, By Application, 2021 - 2033 (USD Billion)

6.7.5. UAE

6.7.5.1. UAE 3D Printing Powders Market Estimates & Forecasts, 2021 - 2033 (USD Billion)

6.7.5.2. UAE 3D Printing Powders Market Estimates & Forecasts, By Material Type, 2021 - 2033 (USD Billion)

6.7.5.3. UAE 3D Printing Powders Market Estimates & Forecasts, By Application, 2021 - 2033 (USD Billion)

6.7.6. Egypt

6.7.6.1. Egypt 3D Printing Powders Market Estimates & Forecasts, 2021 - 2033 (USD Billion)

6.7.6.2. Egypt 3D Printing Powders Market Estimates & Forecasts, By Material Type, 2021 - 2033 (USD Billion)

6.7.6.3. Egypt 3D Printing Powders Market Estimates & Forecasts, By Application, 2021 - 2033 (USD Billion)

6.7.7. Kuwait

6.7.7.1. Kuwait 3D Printing Powders Market Estimates & Forecasts, 2021 - 2033 (USD Billion)

6.7.8.2. Kuwait 3D Printing Powders Market Estimates & Forecasts, By Material Type, 2021 - 2033 (USD Billion)

6.7.8.3. Kuwait 3D Printing Powders Market Estimates & Forecasts, By Application, 2021 - 2033 (USD Billion)

6.7.8. Qatar

6.7.8.1. Qatar 3D Printing Powders Market Estimates & Forecasts, 2021 - 2033 (USD Billion)

6.7.8.2. Qatar 3D Printing Powders Market Estimates & Forecasts, By Material Type, 2021 - 2033 (USD Billion)

6.7.8.3. Qatar 3D Printing Powders Market Estimates & Forecasts, By Application, 2021 - 2033 (USD Billion)

CHAPTER 7. COMPETITIVE LANDSCAPE

7.1. Recent Developments & Impact Analysis, By Key Market Participants

7.2. Competition Categorization

7.3. Company Market Positioning

7.4. Company Heat Map Analysis, 2024

7.5. Strategy Mapping, 2024

7.6. Company Listing

7.6.1. H?gan?s

7.6.1.1. Company Overview

7.6.1.2. Financial Performance

7.6.1.3. Product Benchmarking

7.6.1.4. Strategic Initiatives

7.6.2. GKN Additive

7.6.2.1. Company Overview

7.6.2.2. Financial Performance

7.6.2.3. Product Benchmarking

7.6.2.4. Strategic Initiatives

7.6.3. EOS GmbH

7.6.3.1. Company Overview

7.6.3.2. Financial Performance

7.6.3.3. Product Benchmarking

7.6.3.4. Strategic Initiatives

7.6.4. Sandvik AB

7.6.4.1. Company Overview

7.6.4.2. Financial Performance

7.6.4.3. Product Benchmarking

7.6.4.4. Strategic Initiatives

7.6.5. SSAB

- 7.6.5.1. Company Overview
- 7.6.5.2. Financial Performance
- 7.6.5.3. Product Benchmarking
- 7.6.5.4. Strategic Initiatives
- 7.6.6. Evonik
 - 7.6.6.1. Company Overview
 - 7.6.6.2. Financial Performance
 - 7.6.6.3. Product Benchmarking
 - 7.6.6.4. Strategic Initiatives
- 7.6.7. Arkema
 - 7.6.7.1. Company Overview
 - 7.6.7.2. Financial Performance
 - 7.6.7.3. Product Benchmarking
 - 7.6.7.4. Strategic Initiatives
- 7.6.8. INDO-MIM
 - 7.6.8.1. Company Overview
 - 7.6.8.2. Financial Performance
 - 7.6.8.3. Product Benchmarking
 - 7.6.8.4. Strategic Initiatives
- 7.6.9. Forward AM
 - 7.6.9.1. Company Overview
 - 7.6.9.2. Financial Performance
 - 7.6.9.3. Product Benchmarking
 - 7.6.9.4. Strategic Initiatives
- 7.6.10. Carpenter Technology
 - 7.6.10.1. Company Overview
 - 7.6.10.2. Financial Performance
 - 7.6.10.3. Product Benchmarking
 - 7.6.10.4. Strategic Initiatives

List Of Tables

LIST OF TABLES

Table 1 3D Printing Powders Market Estimates & Forecast, By Material Type 2021 - 2033 (USD Billion)

Table 2 3D Printing Powders Market Estimates & Forecast, By Application 2021 - 2033 (USD Billion)

List Of Figures

LIST OF FIGURES

- Fig. 1 3D Printing Powders Market Segmentation & Scope
- Fig. 2 Information Procurement
- Fig. 3 Data Analysis Models
- Fig. 4 Market Formulation and Validation
- Fig. 5 Data Validating & Publishing
- Fig. 6 Regional Outlook
- Fig. 7 Segmental Outlook
- Fig. 8 Competitive Outlook
- Fig. 9 Market Penetration & Growth Mapping
- Fig. 10 Value Chain Analysis
- Fig. 11 3D Printing Powders: Market Dynamics
- Fig. 12 Market Driver Analysis
- Fig. 13 Market Restraint Analysis
- Fig. 14 Industry Analysis: Porter's
- Fig. 15 PESTEL analysis, by SWOT
- Fig. 16 Material Type: Key Takeaways
- Fig. 17 Material Type: Market Share, 2025 & 2033
- Fig. 18 3D Printing Powders Market Estimates & forecasts, By Metal Powders, 2021 - 2033 (USD Billion)
- Fig. 19 3D Printing Powders Market Estimates & forecasts, By Polymer Powders, 2021 - 2033 (USD Billion)
- Fig. 20 3D Printing Powders Market Estimates & forecasts, By Ceramic Powders, 2021 - 2033 (USD Billion)
- Fig. 21 3D Printing Powders Market Estimates & forecasts, By Others, 2021 - 2033 (USD Billion)
- Fig. 22 Application: Key Takeaways
- Fig. 23 Application: Market Share, 2025 & 2033
- Fig. 24 3D Printing Powders market estimates & forecasts, for Aerospace, 2021 - 2033 (USD Billion)
- Fig. 25 3D Printing Powders market estimates & forecasts, for Automotive and Transportation, 2021 - 2033 (USD Billion)
- Fig. 26 3D Printing Powders market estimates & forecasts, for Healthcare, 2021 - 2033 (USD Billion)
- Fig. 27 3D Printing Powders market estimates & forecasts, for Industrial Manufacturing,

2021 - 2033 (USD Billion)

Fig. 28 3D Printing Powders Market Estimates & Forecast, for Others, 2021 - 2033 (USD Billion)

Fig. 29 Region, 2025 & 2033 (USD Billion)

Fig. 30 Regional marketplace: Key takeaways

Fig. 31 North America 3D Printing Powders Market Estimates & forecast, 2021 - 2033 (USD Billion)

Fig. 32 U.S. 3D Printing Powders Market Estimates & forecast, 2021 - 2033 (USD Billion)

Fig. 33 Canada 3D Printing Powders Market Estimates & forecast, 2021 - 2033 (USD Billion)

Fig. 34 Mexico 3D Printing Powders Market Estimates & forecast, 2021 - 2033 (USD Billion)

Fig. 35 Europe 3D Printing Powders Market Estimates & forecast, 2021 - 2033 (USD Billion)

Fig. 36 UK 3D Printing Powders Market Estimates & forecast, 2021 - 2033 (USD Billion)

Fig. 37 Germany 3D Printing Powders Market Estimates & forecast, 2021 - 2033 (USD Billion)

Fig. 38 France 3D Printing Powders Market Estimates & forecast, 2021 - 2033 (USD Billion)

Fig. 39 Spain 3D Printing Powders Market Estimates & forecast, 2021 - 2033 (USD Billion)

Fig. 40 Asia Pacific 3D Printing Powders Market Estimates & forecast, 2021 - 2033 (USD Billion)

Fig. 41 China 3D Printing Powders Market Estimates & forecast, 2021 - 2033 (USD Billion)

Fig. 42 India 3D Printing Powders Market Estimates & forecast, 2021 - 2033 (USD Billion)

Fig. 43 Japan 3D Printing Powders Market Estimates & forecast, 2021 - 2033 (USD Billion)

Fig. 44 South Korea 3D Printing Powders Market Estimates & forecast, 2021 - 2033 (USD Billion)

Fig. 45 Central & South America 3D Printing Powders Market Estimates & forecast, 2021 - 2033 (USD Billion)

Fig. 46 Middle East & Africa 3D Printing Powders Market Estimates & forecast, 2021 - 2033 (USD Billion)

Fig. 47 Saudi Arabia 3D Printing Powders Market Estimates & forecast, 2021 - 2033 (USD Billion)

Fig. 48 UAE 3D Printing Powders Market Estimates & forecast, 2021 - 2033 (USD Billion)

Billion)

Fig. 49 Egypt 3D Printing Powders Market Estimates & forecast, 2021 - 2033 (USD Billion)

Fig. 50 Kuwait 3D Printing Powders Market Estimates & forecast, 2021 - 2033 (USD Billion)

Fig. 51 Qatar 3D Printing Powders Market Estimates & forecast, 2021 - 2033 (USD Billion)

Fig. 52 Competition Categorization

Fig. 53 Company Market Positioning

Fig. 54 Company Heat Map Analysis, 2024

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