

3D Printing Powder Market: Segmented by Type (Metal Powder, Plastic Powder, Ceramic Powder, Other Powders); By Application (Aerospace Defense, Automotive, Medical Dental and Others) and Region – Global Analysis of Market Size, Share & Trends for 2019–2020 and Forecasts to 2030

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Abstracts

174+ Pages Research Report 3D Printing Powder market to surpass USD 7665.87 million by 2030 from USD 950.13 million in 2020 at a CAGR of 23.22% in the coming years, i.e., 2021-30.

Product Overview

A digitally controlled device, 3D printing powder is used to create a three-dimensional item from powder fed into 3D printers. Additive manufacturing, often known as 3D printing, is the process of building successive layers of raw materials until the product takes the required shape, i.e. a three-dimensional object. Layer deposition is controlled by computer-aided software that includes a virtual 3D design as well as technical criteria for fabrications, such as dimensions. The majority of 3D printing materials are spherical in form, with particle sizes ranging from 50 to 150 micrometers. Titanium alloys, diamond catalyst alloys, tool steel, stainless steel, aluminum alloys, copper alloys, and superalloys of chromium and nickel are the most common materials used. Furthermore, a large portion of the 3D printers now on the market are based on powders rather than filaments.

Market Highlights

3D Printing Powder Market is expected to project a notable CAGR of 23.22% in 2030. The increasing need for superior additive manufacturing technology for 3D printing is a

major reason driving up demand for 3D printing powder, which in turn is propelling the market forward. Increasing applications for the automotive and aerospace sectors, as well as rising demand from the medical sector, are also propelling the market growth.

Recent highlights in the 3D Printing Powder market

In 2019, Lima Corporate, based in the United States, has marketed additively manufactured hip cup implants. The firm soon plans to open an on-site AM facility at a New York hospital, according to the company.

In 2017, Arconic and Airbus signed a deal to provide nickel-based parts for the A320 series of aircraft using AM technology.

3D Printing Powder Market: Segments

Aerospace & Defense segment to grow with the highest CAGR during 2020-30
3D Printing Powder market is segmented by application into aerospace & military, automotive, medical & dentistry, and others. The aerospace & defense industry segment is expected to continue dominating the market as major airbus manufacturing firms are growing their usage of 3D printing powder in the production of jet engines and engine components.

Metal segment to grow with the highest CAGR during 2020-30

3D Printing Powder market is segmented by type into Aerospace Defense, Automotive, Medical Dental, and Others. Among these, the metal category had the highest revenue share in 2020 and this trend is expected to continue over the forecast period. Because of its solid structure and excellent corrosion resistance, metal powder is widely used for 3D printing in aerospace and military, and automotive applications, which is propelling the metal segment forward.

Market Dynamics

Drivers

Rise in number of technological advancements

During the projected period, the 3D printing powder market is expected to benefit from an increase in technical developments. Important patents on powder-based laser sintering technology, which is one of the cheapest ways to make durable items out of metal powders, expired in 2014. During the projected period, this will have a significant impact on the growth of 3D printing powder. With the expiration of these major patents, numerous medium and small-scale companies are able to use powder-based laser sintering technology, resulting in an increase in demand for powder-based printers.

Producers in the powder metallurgy sector are expected to benefit the most from all of these operations in the near future.

Increasing Investments

During the projected period, an increase in investments by technologically advanced startups and government organizations is expected to boost the market growth.

Restraint

Difficult supply of specialized high cost of metal powder

For usage in high-precision engineering applications, powders used in additive manufacturing must be atomized. Supply of these specialized powders is still an issue, which may limit market growth. Furthermore, the market's expansion is expected to be hampered by the high costs of metal powder and industrial-grade printers.

3D Printing Powder Market: Key Players

Sandvik AB

Company Overview, Business Strategy, Key Product Offerings, Financial Performance, Key Performance Indicators, Risk Analysis, Recent Development, Regional Presence, SWOT Analysis

Arkema

Carpenter Technology Corporation

Advanced Powders and Coatings Inc.

Carpenter Technology Corporation

LPW Technology Ltd.

Hoganas AB

GKN plc

Metalysis

Arcam AB

3D Printing Powder Market: Regions

3D Printing Powder market is segmented based on regional analysis into five major regions. These include North America, Latin America, Europe, Asia Pacific, and the Middle East, and Africa. Asia-Pacific is projected to be the largest market in the future years as a result of the region's economic expansion and growing technological investments. In addition, the region's growth is projected to be aided by rising demand for the automotive, aerospace, and pharmaceutical industries. Furthermore, the region's growing pace of urbanization will boost revenue for the 3D printing powder market.

3D Printing Powder Market is further segmented by region into:

North America Market Size, Share, Trends, Opportunities, Y-o-Y Growth, CAGR – United States and Canada

Latin America Market Size, Share, Trends, Opportunities, Y-o-Y Growth, CAGR – Mexico, Argentina, Brazil, and Rest of Latin America

Europe Market Size, Share, Trends, Opportunities, Y-o-Y Growth, CAGR – United Kingdom, France, Germany, and Rest of Europe

Asia Pacific Market Size, Share, Trends, Opportunities, Y-o-Y Growth, CAGR – China, Japan, Australia, and Rest of APAC

Middle East and Africa Market Size, Share, Trends, Opportunities, Y-o-Y Growth, CAGR – North Africa, Israel, GCC, South Africa and Rest of MENA

3D Printing Powder Market report also contains analysis on:

3D Printing Powder Market Segments:

By Type

Metal Powder

Plastic Powder

Ceramic Powder

Other Powders

By Application

Aerospace Defense

Automotive

Medical Dental

Others

3D Printing Powder Market Dynamics

3D Printing Powder Market Size

Supply & Demand

Current Market Trends/Issues/Challenges

Competition & Companies Involved in the Market

Value Chain of the Market

Market Drivers and Restraints

3D Printing Powder Market Report Scope and Segmentation

Report Attribute Details

Market size value in 2021 USD 1169.49 million

Revenue forecast in 2030 USD 7665.87 million

Growth Rate CAGR of 23.22% from 2021 to 2030

Base year for estimation 2020

Quantitative units Revenue in USD million and CAGR from 2021 to 2030

Report coverage Revenue forecast, company ranking, competitive landscape, growth factors, and trends

Segments covered Type, Application, and Region

Regional scope North America; Europe; Asia Pacific; Latin America; Middle East & Africa (MEA)

Key companies profiled Sandvik AB, Arkema, Carpenter Technology Corporation, Advanced Powders and Coatings Inc., Carpenter Technology Corporation, LPW Technology Ltd., Hoganas AB, GKN plc, Metalysis, Arcam AB, and Other Prominent Players.

Frequently Asked Questions

How big is the 3D Printing Powder market?

What is the 3D Printing Powder market growth?

Which segment accounted for the largest 3D Printing Powder market share?

Who are the key players in the 3D Printing Powder market?

What are the factors driving the 3D Printing Powder market?

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Consultant Recommendation

****The above-given segmentations and companies could be subjected to further modification based on in-depth feasibility studies conducted for the final deliverable.**

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