

Automotive 3D Printing Market: Global Industry Trends, Share, Size, Growth, Opportunity and Forecast 2023-2028

<https://marketpublishers.com/r/AB89D35E02B7EN.html>

Date: September 2023

Pages: 147

Price: US\$ 2,499.00 (Single User License)

ID: AB89D35E02B7EN

Abstracts

Market Overview:

The global automotive 3D printing market size reached US\$ 2.6 Billion in 2022. Looking forward, IMARC Group expects the market to reach US\$ 8.5 Billion by 2028, exhibiting a growth rate (CAGR) of 20.7% during 2023-2028.

Three-dimensional (3D) printing refers to automated additive manufacturing technology that assists in creating rapid prototypes for fabricating layer-by-layer materials to design patterns, physical models, and tooling components. It aids in creating various lightweight intricate geometric pieces, including internal channels and wire mesh, reducing prototyping cost and manufacturing complex parts, while ensuring minimal wastage of materials. On account of these properties, 3D printing is extensively used in the automotive sector to enable automobile designers to validate prototypes, conceptualize, design and customize vehicle parts in a shorter period. At present, it is commercially available in metal, polymer and ceramics material types.

Automotive 3D Printing Market Trends:

The significant expansion in the automotive sector, along with the increasing demand for lightweight materials to enhance fuel efficiency in automobiles is primarily driving the market growth. Automotive 3D printing solution is widely adopted in the sector for manufacturing various complex parts of vehicles, while reducing lead time, which represents a key factor primarily driving the market growth. This can be attributed to the various advantages, such as reduced capital investments and high performance, associated with the deployment of automotive 3D printing systems. In line with this, the introduction of fused deposition modelling (FDM) solutions for manufacturing prototypes

and concept model parts is acting as another major growth-inducing factor. The computer-aided system assists in deriving inputs from the processing unit, which further commands the model to start printing materials that are usually made from high-performance thermoplastics. Other factors, such as the emerging trend of customized automotive parts and extensive strategic collaborations amongst key players and original equipment manufacturers (OEMs) for introducing innovative automotive 3D printing systems to meet the evolving consumer needs, are creating a positive outlook for the market.

Key Market Segmentation:

IMARC Group provides an analysis of the key trends in each sub-segment of the global automotive 3D printing market report, along with forecasts at the global, regional and country level from 2023-2028. Our report has categorized the market based on component type, technology type, material type and application.

Breakup by Component Type:

- Hardware
- Software
- Service

Breakup by Technology Type:

- Selective Laser Sintering (SLS)
- Stereo Lithography (SLA)
- Digital Light Processing (DLP)
- Electronic Beam Melting (EBM)
- Selective Laser Melting (SLM)
- Fused Deposition Modeling (FDM)

Breakup by Material Type:

- Metal
- Polymer
- Ceramic

Breakup by Application:

- Production

Innovation and R&D
Prototyping

Breakup by Region:

North America

United States

Canada

Asia-Pacific

China

Japan

India

South Korea

Australia

Indonesia

Others

Europe

Germany

France

United Kingdom

Italy

Spain

Russia

Others

Latin America

Brazil

Mexico

Others

Middle East and Africa

Competitive Landscape:

The competitive landscape of the industry has also been examined along with the profiles of the key players being 3D Systems Inc., 3DGence, Autodesk Inc., Desktop Metal Inc., EOS GmbH, Formlabs Inc., H?gan?s AB, Materialise NV, SLM Solutions Group AG, Stratasys Ltd., Ultimaker BV and voxeljet AG.

Key Questions Answered in This Report:

How has the global automotive 3D printing market performed so far and how will it perform in the coming years?

What has been the impact of COVID-19 on the global automotive 3D printing market?

What are the key regional markets?

What is the breakup of the market based on the component type?

What is the breakup of the market based on the technology type?

What is the breakup of the market based on the material type?

What is the breakup of the market based on the application?

What are the various stages in the value chain of the industry?

What are the key driving factors and challenges in the industry?

What is the structure of the global automotive 3D printing market and who are the key players?

What is the degree of competition in the industry?

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