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Global Automated 3D Printing Market Size study & Forecast, by Offering (Software and Hardware), by Process (Multi-Processing, Post-Processing, and Automated Production), by End-User (Healthcare and Automotive), and Regional Forecasts 2025-2035

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Abstracts

The Global Automated 3D Printing Market is valued approximately at USD 0.38 billion in 2024 and is anticipated to grow with a CAGR of more than 64.08% over the forecast period 2025–2035. Automated 3D printing represents the next paradigm shift in additive manufacturing—one where machines don't just print but think, adapt, and optimize the production cycle without human intervention. This emerging technology integrates robotics, artificial intelligence, and machine learning to automate critical stages of the 3D printing process—from material handling and calibration to post-processing and inspection. As manufacturers seek greater efficiency, scalability, and precision, automated 3D printing is evolving into a cornerstone of Industry 4.0. The growing adoption of smart factories, coupled with advancements in industrial robotics and real-time monitoring systems, continues to fuel global market growth. Moreover, the technology's capacity to cut down production time, reduce material wastage, and enhance customization has positioned it as an essential enabler of next-generation manufacturing systems.

The exponential rise in demand for automation across production lines and the surging adoption of additive manufacturing across end-use industries have propelled the growth of the Automated 3D Printing Market. Industries such as automotive, healthcare, and aerospace are increasingly leveraging automated additive manufacturing to produce complex geometries with unparalleled precision. According to data from the World Economic Forum, automation has already reshaped more than 50% of manufacturing workflows worldwide, paving the way for fully autonomous production environments.

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Automated 3D printing systems are now capable of operating continuously, integrating real-time defect detection and auto-correction features, which dramatically improve product quality. Furthermore, the integration of software-driven simulation tools and robotic arms ensures a seamless link between digital design and physical output. However, high initial capital costs, limited interoperability between systems, and the scarcity of skilled technicians remain challenges that could constrain growth in emerging markets during the forecast period.

The detailed segments and sub-segments included in the report are:

By Offering:

Hardware

Software

By Process:

Multi-Processing

Post-Processing

Automated Production

By End-User:

Healthcare

Automotive

By Region:

North America

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- Canada

Europe

- UK
- Germany
- France
- Spain
- Italy
- ROE

Asia Pacific

- China
- India
- Japan
- Australia
- South Korea
- RoAPAC

Latin America

- Brazil
- Mexico

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Middle East & Africa

UAE

Saudi Arabia

South Africa

Rest of Middle East & Africa

Hardware Segment Expected to Dominate the Market

Hardware continues to hold the lion’s share of the global Automated 3D Printing Market, emerging as the core enabler of intelligent additive manufacturing ecosystems. The segment’s dominance stems from the rising demand for advanced printers, sensors, robotic arms, and automated material feeders designed to operate with minimal human supervision. The integration of AI-driven robotics and precision motion systems has amplified production throughput and consistency across industries. Hardware innovations such as self-calibrating printers and integrated robotic manipulators have further minimized manual intervention, thereby boosting efficiency. With manufacturers increasingly focusing on end-to-end automation and seamless workflow optimization, hardware remains the foundation of growth, supporting the transition from prototyping to full-scale production.

Automotive Sector Leads in Revenue Contribution

The automotive sector currently dominates the Automated 3D Printing Market in terms of revenue generation, owing to the rapid digitization of production processes and growing demand for lightweight, high-performance components. Automotive manufacturers are adopting automated additive manufacturing to streamline prototyping, optimize supply chains, and produce customized parts at scale. From electric vehicle battery housings to aerodynamic components, automation is enabling unprecedented speed and precision in automotive design and manufacturing. Meanwhile, the healthcare industry is emerging as the fastest-growing end-user segment, driven by rising demand for personalized medical devices, implants, and surgical instruments produced through fully automated 3D printing systems. Together, these industries underscore how automation is reshaping both mass production and bespoke manufacturing landscapes.

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The key regions considered for the Global Automated 3D Printing Market study include North America, Europe, Asia Pacific, Latin America, and the Middle East & Africa. North America currently leads the global market, supported by strong investments in additive manufacturing research, robust industrial infrastructure, and early adoption of automation technologies across aerospace, automotive, and healthcare sectors. The United States remains the epicenter of innovation, with extensive integration of robotics and AI within additive workflows. Europe follows closely, driven by the widespread implementation of smart manufacturing initiatives and stringent sustainability goals that favor automated, material-efficient production systems. Asia Pacific, however, is projected to witness the fastest growth during 2025–2035, driven by industrial expansion in China, Japan, and India. The region's aggressive move toward digital manufacturing, combined with government-backed initiatives in industrial automation, is expected to make it a pivotal growth engine for the global market.

Major market players included in this report are:

Stratasys Ltd.

3D Systems Corporation

HP Inc.

Siemens AG

Materialise NV

GE Additive (General Electric Company)

Autodesk, Inc.

EOS GmbH

Renishaw plc

ExOne Company (Desktop Metal Inc.)

SLM Solutions Group AG

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Dassault Syst?mes SE

Trumpf GmbH + Co. KG

Voxeljet AG

Markforged Holding Corporation

Global Automated 3D Printing Market Report Scope:

Historical Data – 2023, 2024

Base Year for Estimation – 2024

Forecast period – 2025–2035

Report Coverage – Revenue forecast, Company Ranking, Competitive Landscape, Growth factors, and Trends

Regional Scope – North America; Europe; Asia Pacific; Latin America; Middle East & Africa

Customization Scope – Free report customization (equivalent to up to 8 analysts' working hours) with purchase. Addition or alteration to country, regional & segment scope*

The objective of the study is to define market sizes of different segments & countries in recent years and to forecast the values for the coming years. The report is designed to incorporate both qualitative and quantitative aspects of the industry within the countries involved in the study. The report also provides detailed information about crucial aspects, such as driving factors and challenges, which will define the future growth of the market. Additionally, it incorporates potential opportunities in micro-markets for stakeholders to invest, along with a detailed analysis of the competitive landscape and product offerings of key players. The detailed segments and sub-segments of the market are explained below:

Key Takeaways:

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Market Estimates & Forecast for 10 years from 2025 to 2035.

Annualized revenues and regional-level analysis for each market segment.

Detailed analysis of the geographical landscape with country-level analysis of major regions.

Competitive landscape with information on major players in the market.

Analysis of key business strategies and recommendations on future market approach.

Analysis of the competitive structure of the market.

Demand side and supply side analysis of the market.

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Contents

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CHAPTER 9. COMPETITIVE INTELLIGENCE

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List Of Tables

LIST OF TABLES

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List Of Figures

LIST OF FIGURES

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