

Industrial 3D Printing Market Size to Hit USD 14.66 Billion by 2032, at 19.12% CAGR | SNS INSIDER

Market is growing with demand for rapid prototyping, customized manufacturing, and lightweight components in aerospace, automotive, and healthcare industries.

AUSTIN, TX, UNITED STATES, February 19, 2025 /EINPresswire.com/ -- Market Size & Industry Insights

According to the SNS Insider

Report, "The [Industrial 3D Printing Market](#) was valued at USD 3.04 billion

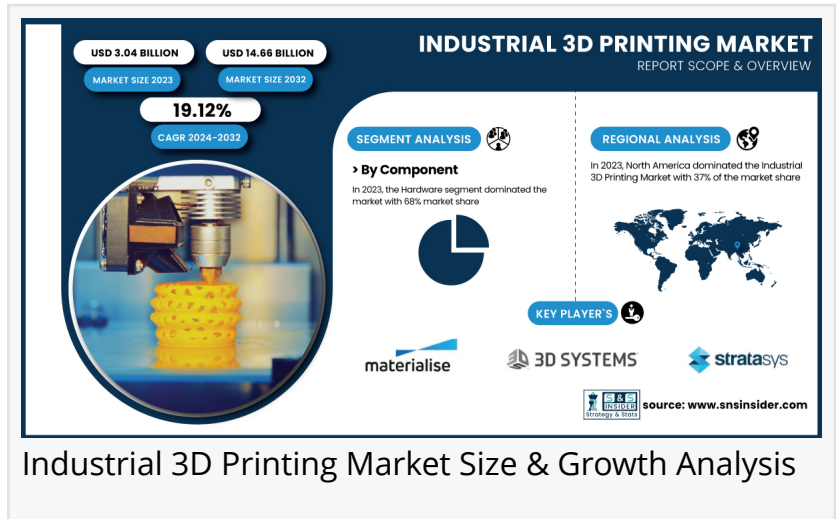
in 2023 and is expected to grow to USD 14.66 billion by 2032, at a CAGR of 19.12% over the forecast period of 2024-2032."

With demand for rapid prototyping, customization, and cost-efficiency in manufacturing growth, the industrial 3D printing market is also expanding. It allows for minimized waste, quicker lead times, and intricate designs in cable with traditional processes. Its precision and versatility over various materials make it a popular technology in key industries such as aerospace, automotive, healthcare, and electronics.

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SWOT Analysis of Key Players as follows:

- Stratasys (FDM 3D Printers, PolyJet Technology)
- 3D Systems (SLA Printers, SLS Printers)
- Materialise (Additive Manufacturing Software, On-demand 3D Printing)
- HP Inc. (Multi Jet Fusion Printers, Powder Bed Fusion Systems)
- GE Additive (Metal 3D Printers, Binder Jetting Systems)
- EOS GmbH (Powder Bed Fusion Systems, Metal and Polymer Materials)
- SLM Solutions (Selective Laser Melting Systems, Metal 3D Printing Services)



Industrial 3D Printing Market Size & Growth Analysis

- Desktop Metal (Binder Jetting Printers, Metal 3D Printing)
- Formlabs (Resin-based SLA Printers, Dental 3D Printing Solutions)
- Renishaw (Metal Additive Manufacturing, Laser-based Printing)
- Ultimaker (Desktop 3D Printers, Material Alliance Program)
- Carbon (Digital Light Synthesis, High-Performance Resins)
- Markforged (Continuous Fiber Composite Printing, Metal X Printers)
- Voxeljet (Binder Jetting Technology, High-Speed Large-format Printers)
- ExOne (Binder Jetting Systems, Industrial-grade Printers)
- Proto Labs (On-Demand 3D Printing, Rapid Prototyping)
- Zortrax (Desktop 3D Printers, Filament Materials)
- XYZprinting (Affordable 3D Printers, Educational Solutions)
- FlashForge (Desktop 3D Printers, Entry-level Systems)
- Raise3D (Industrial-grade 3D Printers, Open Material Systems)

Key Market Segmentation:

By Component: The hardware segment accounted for the highest share in 2023. This growth was driven by factors, such as increasing demand for higher performance and reliable hardware in the automotive, aerospace, and healthcare sectors, where companies were continuously trying to improve production processes while minimizing costs and maximizing product quality.

The software segment is anticipated to expand at the maximum CAGR between 2024 and 2032. As 3D printing becomes more embedded in enterprises, there is increasing demand for software solutions that control, optimize, and manage those processes. Software developments such as design tools, simulation software, and machine learning algorithms are improving the efficiency, precision, and flexibility of 3D printing technology.

By Process: In 2023, Powder Bed Fusion dominated the 3D printing market as it is highly accurate and compatible with multiple material types, including metals, polymers, and ceramics. This process is widely applied in industries such as aerospace, automotive, and healthcare to manufacture large and high-performance complexes with good mechanical properties. This results in a resin-processed part that is dense and durable, while being produced with a high-resolution, high-accuracy process, making it one of the most sought-after processes for use in end-use part production.

Binder Jetting is expected to experience the fastest growth in CAGR from 2024 to 2032. This process provides benefits in terms of speed, economy, and application flexibility, particularly in the case of large-scale low-cost parts. Due to the demand for scalable, flexible, high-speed 3D printing solutions, Binder Jetting is quickly being adopted in industries such as metal manufacturing, construction, and healthcare.

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By Technology: SLA technology dominated the industrial 3D printing market in 2023, with its advantages of high accuracy, fine detail, and smooth surface finish. SLA is a common choice for prototyping and low-volume production in sectors such as healthcare, automotive, and consumer goods, where looks and precision are paramount.

Fused Deposition Modeling is projected to have the highest CAGR from 2024 to 2032. FDM technology offers quick turnaround as it has low cost, user-friendly operation, and allows us to use a wide range of thermoplastic materials for 3D printing. Due to the ever-increasing development of the properties of the material and the performance of the machine.

By Application: Prototyping was the largest application in the industrial 3D printing market in 2023. 3D printing introduces the disruption of low cost and fast turnaround time for making accurate prototypes compared to traditional means. Among automotive, aerospace, and consumer goods circles, prototyping, that is, design iterations and validation before scale-up to mass production, has been common practice for decades.

Manufacturing is anticipated to be the fastest CAGR during the period 2024–2032. The paradigm that combines milling and rapid prototyping, with the added benefit of being able to manufacture their parts comes directly from 3D printing since it allows for the production of complex, customized parts directly without the use of costly molds or tooling, thus, it is transforming the face of manufacturing.

By Industry: In 2023, the Automotive industry dominated the industrial 3D printing market. Soft robotic end-effectors are commonly designed as complex, lightweight components, and 3D-printing technology plays an important role in the automotive industry by printing parts that are both quick and cheap.

The Healthcare industry is projected to grow the fastest CAGR from 2024-2032. An increase in the need for personalization of medical devices, prosthetics, and implants is boosting the uptake of 3D printing technologies. Furthermore, 3D printing enables customization in healthcare patient-specific anatomical models that can be created for surgery planning, and bioprinting is offering new applications in tissue engineering and regenerative medicine.

North America Leads Industrial 3D Printing Growth with Asia Pacific Set for Fastest Expansion.

North America led the industrial 3D printing industry in 2023, a direct result of its established manufacturing capability, robust technological infrastructure, and substantial research and development investments. Especially the US has been at the top of adopting 3D printing in the automotive, aerospace, and healthcare industries. A strong ecosystem of major 3D printing companies, suppliers, and educational institutions powers growth and innovation in North America.

Asia Pacific region is predicted to grow faster with the highest CAGR throughout the forecast

period range of 2024-2032. A strong manufacturing base along with rapid industrialization coupled with rising demand for the adaptation of advanced technologies is driving the market growth of 3D Printing in this region. With China, Japan, and India increasing their 3D printing activities in the automotive, aerospace, and healthcare sectors, these regions are witnessing significant growth.

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