

CIC 灼识



Global 3D creative Industry Report

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Executive Summary

The 3D creative industry has evolved into a new stage of application and development, accelerated by the convergence of AI and advanced manufacturing. Market expansion is projected to sustain its momentum, propelled by a trio of structural tailwinds: AI-driven design automation, surging demand for hyper-personalization, and progresses in materials science. Early adopters are already leveraging these technologies to erect formidable competitive moats, reshaping the industry's barrier to entry.

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1. Market Overview

1.1 Market Definition

The 3D creative industry comprises products and services used for the creation of 3D physical and virtual objects, including consumer 3D printing, 3D scanning and laser engraving. The industry is expected to unlock significant value as the distributed manufacturing model continues to mature and the combined effects of AI-enabled design automation, rising demand for personalization, and the continued maturation of commercial ecosystems and platforms.

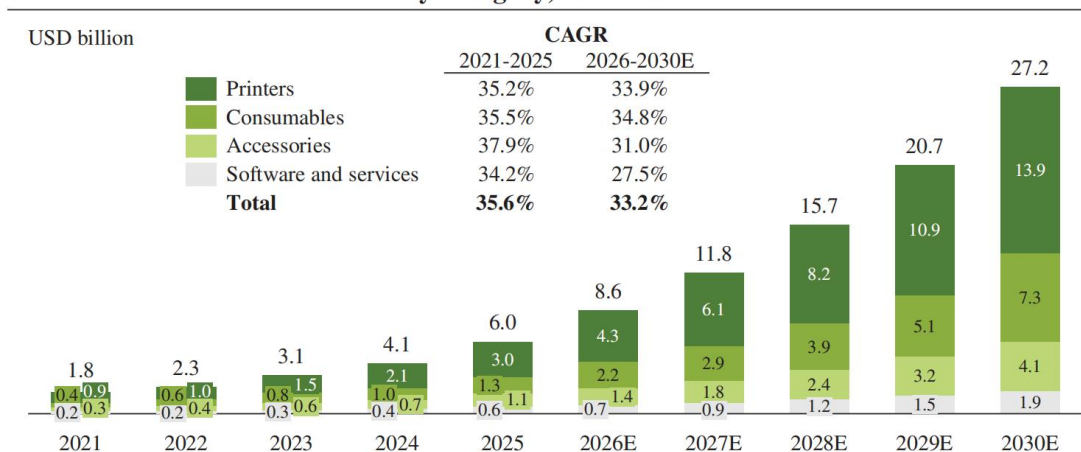
1.2 Market Size and Growth

Consumer 3D printing refers to the use of desktop or small-scale 3D printers by individual consumers, hobbyists, educators, and small businesses for daily creative projects, prototyping, and lightweight commercial applications. It differs substantially in printing size, precision and stability, and the complexity of supported materials with industrial 3D printing.

Dimension	Consumer 3D Printing	Industrial 3D Printing
Target users	Individual consumers, hobbyists, educators, small businesses, engineers, designers, teachers, doctors	Enterprises and professional manufacturers across automotive, aerospace, medical, and architecture
Printer size	Typically less than 0.2 cubic m ³ (600 × 600 × 600 mm)	Approximately 1 cubic m ³
Maximum printing size	Typically less than 0.1 cubic m ³	0.5~1 cubic m ³
Precision & stability	Adequate for prototypes, daily creative projects, educational and design models; moderate stability and accuracy	Ultra-high stability and precision, meeting industrial-grade requirements for end-use parts
Complexity	Suitable for simpler geometries; more limited multi-material compatibility	Capable of highly complex structures, multi-material printing including metals and composites

In 2025, the market size of consumer 3D printing in terms of GMV reached US\$6.0 billion, and it is projected to grow to US\$27.2 billion by 2030, representing a CAGR of 35.2%.

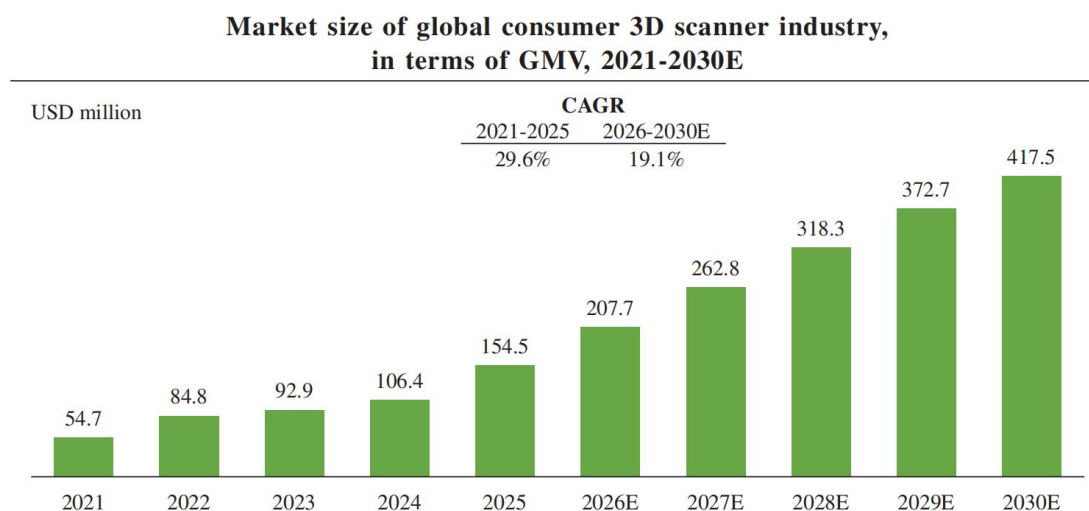
Market size of global consumer 3D printing industry, in terms of GMV, by category, 2021-2030E



Note: GMV refers to the value of products and services in the retail market

Source: CIC Reports

3D scanning is a critical entry point to the 3D creative industry by enabling users to capture high-precision geometric and texture data of physical objects without the need for complex modeling skills. The market size of consumer 3D scanner in terms of GMV reached US\$154.5 million in 2025 and are projected to grow to US\$417.5 million by 2030, representing a CAGR of 19.1% from 2026 to 2030.

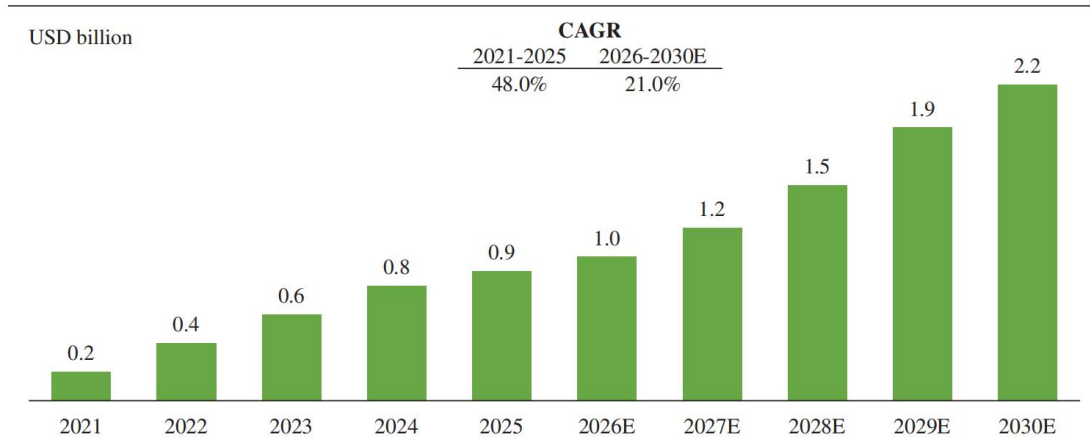


Source: CIC Reports

Laser engraving refers to a digital fabrication process that enables precise cutting, engraving, and surface etching on a variety of materials including wood, leather, metal and plastic. The market size of consumer laser engraver in terms of GMV reached US\$0.9 billion in

2025 and are expected to grow to US\$2.2 billion by 2030, representing a CAGR of 21.0% from 2026 to 2030.

**Market size of global consumer laser engraver industry,
in terms of GMV, 2021-2030E**



Source: CIC Reports

2. Key Growth Drivers

2.1 Drivers and Trends of Consumer 3D Printing Industry

Technological Innovation Benefiting User Experience.

Rapid advancements in AI are enhancing the intelligence and usability of consumer 3D printers, significantly lower the entry barrier and enhance creative efficiency. Meanwhile, continuous improvements in printer design and control systems have led to higher precision, faster print speeds, and more diverse functional integrations.

Accelerating User Penetration

The convergence of educational initiatives, digital content platforms, and consumer-oriented product design is accelerating user awareness and adoption.

Breakthroughs in Material Science

Continuous progress in materials science is enabling greater functional performance and broader application depth for consumer 3D printing. Printed objects have evolved from simple prototypes to functional parts, home furnishings, fashion accessories, and even small-scale electronic components.

2.2 Future Outlook

Characterized by significant untapped potential, the global 3D creative sector is on a clear growth trajectory. This expansion is underpinned by the evolution of distributed manufacturing and reinforced by three secular trends: AI-enabled automated design, rising consumer demand for customization, and the maturation of platform ecosystems. Additionally, ongoing innovations in materials science will serve as a critical tailwind for the industry's next phase of development.

Despite the industry's continuous scaling, new entrants must navigate an increasingly complex matrix of structural barriers. Market leaders have effectively closed the window for easy replication by locking in systemic advantages across five critical dimensions: cutting-edge R&D iterations, full-spectrum product ecosystems, integrated and agile supply chains, expansive omnichannel distribution, and deep-seated brand equity. Consequently, these compounding strengths not only elevate the industry's baseline standard but also secure long-term market insulation for established pioneers, rendering short-term market disruption highly improbable.



About CIC

CIC is a professional consulting firm offering tailored end-to-end support across the full investment and financing lifecycle. The firm boasts a world-leading track record in guiding landmark first-in-sector IPOs across global markets, alongside unrivaled reach and in-depth coverage capabilities across specialized niche market segments.

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CIC Reports & Industry Overview

At CIC, we employ a rigorous, multi-method research framework, combining primary and secondary sources to underpin our analysis. Primary research involves in-depth engagements with industry thought leaders and practitioners, particularly in supply chain finance. Secondary research synthesizes publicly available datasets from authoritative bodies, including the National Bureau of Statistics of the People's Republic of China, the State Administration of Financial Regulation (SAFR, formerly the China Banking and Insurance Regulatory Commission), the China Securities Regulatory Commission (CSRC), and public company filings. We apply proprietary data analytics frameworks to process collected information, validating findings through cross-referencing data from multiple research streams to ensure analytical rigor and reliability.

All statistical data presented is verifiable and grounded in information available as of the date of this report.



Extracts are refined summaries of in-depth CIC industry research reports, highlighting supply and demand trends, key growth drivers, R&D trends and future outlook, etc. of various segmented fields, integrating multi-dimensional insights such as expert interviews, market surveys and industry data analysis.

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