

South Korea 3D Printing Market Size, Share, Trends and Forecast by Technology, Process, Material, Offering, Application, End User, and Region, 2026-2034

<https://marketpublishers.com/r/SE2D996CEE35EN.html>

Date: July 2026

Pages: 115

Price: US\$ 2,999.00 (Single User License)

ID: SE2D996CEE35EN

Abstracts

The South Korea 3D printing market size reached USD 646.3 Million in 2025. Looking forward, the market is projected to reach USD 3,269.5 Million by 2034, exhibiting a growth rate (CAGR) of 19.14% during 2026-2034. The market is driven by strong government funding and forward-looking strategic planning. Also, medical sector customization requirements creating high-value use cases are providing an impetus to the market. In addition to this, integration of AI-enabled automation aligned with national Industry 4.0 frameworks is further augmenting the South Korea 3D printing market share.

SOUTH KOREA 3D PRINTING MARKET TRENDS:

Government Investments and Strategic Industry Roadmap

The South Korean government has initiated substantial investments to catalyze additive manufacturing adoption across industry sectors. Ministries have allocated millions in R&D funding and established educational centers in universities and vocational institutions. On June 25, 2025, South Korea's KITECH and partners validated a 130-liter 3D printed titanium tank for space use, successfully withstanding 330 bar pressure at -196°C, which is 50% above its operating limit of 220 bar. Built using laser-wire directed energy deposition, the tank met aerospace standards and showed no structural defects. The project supports South Korea's push for domestic space hardware and advanced metal additive manufacturing. Conferences and standardization workshops support alignment with ISO and ASTM norms, promoting

interoperability and technological competitiveness. Public agencies are subsidizing pilot projects across healthcare, aerospace, automotive, and smart construction sectors to demonstrate 3D printing use cases. As industrial parks dedicated to additive technologies emerge, particularly around smart factory zones, governmental support also extends to SMEs seeking to upgrade manufacturing capabilities. Institutional infrastructure and coordinated strategic planning are a central force driving the South Korea 3D printing market growth.

AI Integration, Automation Trends and Industry 4.0 Alignment

South Korean industry is integrating AI, robotics, and digital automation into its manufacturing transformation roadmap. AI-enhanced additive manufacturing platforms now support autonomous workflow orchestration, defect prediction and material optimization. Also, innovations in new materials are creating a favorable market outlook. Researchers at the Korea Electrotechnology Research Institute developed a new high-resolution 3D printing method in 2025 using MXene, achieving a resolution of 1.3 micrometers, 270 times finer than existing techniques. The process eliminates the need for binding agents by leveraging the meniscus effect and MXene's hydrophilic properties, allowing precise, electrically conductive microstructures without post-processing. Moreover, integration with Industry 4.0 initiatives reduces reliance on manual post-processing and ensures consistency across large print batches. Automotive, aerospace, and electronics firms leverage connected factory designs and digital twins to optimize multi-technology workflows. Standardization efforts and robotics alignment within smart factories strengthen the ecosystem of design, simulation and printing tools. Real-time analytics and edge computing integration enable dynamic calibration of print parameters during operation. This synergy of AI, automation and standardized platforms ensures that 3D printing scales across industries while maintaining high quality and throughput efficiency.

SOUTH KOREA 3D PRINTING MARKET SEGMENTATION:

IMARC Group provides an analysis of the key trends in each segment of the market, along with forecasts at the country and regional levels for 2026-2034. Our report has categorized the market based on technology, process, material, offering, application, and end user.

Technology Insights:

Stereolithography

Fused Deposition Modeling

Selective Laser Sintering

Electron Beam Melting

Digital Light Processing

Others

The report has provided a detailed breakup and analysis of the market based on the technology. This includes stereolithography, fused deposition modeling, selective laser sintering, electron beam melting, digital light processing, and others.

Process Insights:

Binder Jetting

Directed Energy Deposition

Material Extrusion

Material Jetting

Power Bed Fusion

Sheet Lamination

Vat Photopolymerization

The report has provided a detailed breakup and analysis of the market based on the process. This includes binder jetting, directed energy deposition, material extrusion, material jetting, power bed fusion, sheet lamination, and vat photopolymerization.

Material Insights:

Photopolymers

Plastics

Metals and Ceramics

Others

The report has provided a detailed breakup and analysis of the market based on the material. This includes photopolymers, plastics, metals and ceramics, and others.

Offering Insights:

Printer

Material

Software

Service

The report has provided a detailed breakup and analysis of the market based on the offering. This includes printer, material, software, and service.

Application Insights:

Prototyping

Tooling

Functional Part Manufacturing

The report has provided a detailed breakup and analysis of the market based on the application. This includes prototyping, tooling, and functional part manufacturing.

End User Insights:

Consumer Products

Machinery

Healthcare

Aerospace

Automobile

Others

The report has provided a detailed breakup and analysis of the market based on the end user. This includes consumer products, machinery, healthcare, aerospace, automobile, and others.

Regional Insights:

Seoul Capital Area

Yeongnam (Southeastern Region)

Honam (Southwestern Region)

Hoseo (Central Region)

Others

The report has also provided a comprehensive analysis of all major regional markets. This includes Seoul Capital Area, Yeongnam (Southeastern Region), Honam (Southwestern Region), Hoseo (Central Region), and others.

COMPETITIVE LANDSCAPE:

The market research report has also provided a comprehensive analysis of the competitive landscape. Competitive analysis such as market structure, key player positioning, top winning strategies, competitive dashboard, and company evaluation

quadrant has been covered in the report. Also, detailed profiles of all major companies have been provided.

KEY QUESTIONS ANSWERED IN THIS REPORT

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

What is the breakup of the South Korea 3D printing market on the basis of technology?

What is the breakup of the South Korea 3D printing market on the basis of process?

What is the breakup of the South Korea 3D printing market on the basis of material?

What is the breakup of the South Korea 3D printing market on the basis of offering?

What is the breakup of the South Korea 3D printing market on the basis of application?

What is the breakup of the South Korea 3D printing market on the basis of end user?

What is the breakup of the South Korea 3D printing market on the basis of region?

What are the various stages in the value chain of the South Korea 3D printing market?

What are the key driving factors and challenges in the South Korea 3D printing market?

What is the structure of the South Korea 3D printing market and who are the key players?

What is the degree of competition in the South Korea 3D printing market?

Contents

1 PREFACE

2 SCOPE AND METHODOLOGY

- 2.1 Objectives of the Study
- 2.2 Stakeholders
- 2.3 Data Sources
 - 2.3.1 Primary Sources
 - 2.3.2 Secondary Sources
- 2.4 Market Estimation
 - 2.4.1 Bottom-Up Approach
 - 2.4.2 Top-Down Approach
- 2.5 Forecasting Methodology

3 EXECUTIVE SUMMARY

4 SOUTH KOREA 3D PRINTING MARKET - INTRODUCTION

- 4.1 Overview
- 4.2 Market Dynamics
- 4.3 Industry Trends
- 4.4 Competitive Intelligence

5 SOUTH KOREA 3D PRINTING MARKET LANDSCAPE

- 5.1 Historical and Current Market Trends (2020-2025)
- 5.2 Market Forecast (2026-2034)

6 SOUTH KOREA 3D PRINTING MARKET - BREAKUP BY TECHNOLOGY

- 6.1 Stereolithography
 - 6.1.1 Overview
 - 6.1.2 Historical and Current Market Trends (2020-2025)
 - 6.1.3 Market Forecast (2026-2034)
- 6.2 Fused Deposition Modeling
 - 6.2.1 Overview
 - 6.2.2 Historical and Current Market Trends (2020-2025)

- 6.2.3 Market Forecast (2026-2034)
- 6.3 Selective Laser Sintering
 - 6.3.1 Overview
 - 6.3.2 Historical and Current Market Trends (2020-2025)
 - 6.3.3 Market Forecast (2026-2034)
- 6.4 Electron Beam Melting
 - 6.4.1 Overview
 - 6.4.2 Historical and Current Market Trends (2020-2025)
 - 6.4.3 Market Forecast (2026-2034)
- 6.5 Digital Light Processing
 - 6.5.1 Overview
 - 6.5.2 Historical and Current Market Trends (2020-2025)
 - 6.5.3 Market Forecast (2026-2034)
- 6.6 Others
 - 6.6.1 Historical and Current Market Trends (2020-2025)
 - 6.6.2 Market Forecast (2026-2034)

7 SOUTH KOREA 3D PRINTING MARKET - BREAKUP BY PROCESS

- 7.1 Binder Jetting
 - 7.1.1 Overview
 - 7.1.2 Historical and Current Market Trends (2020-2025)
 - 7.1.3 Market Forecast (2026-2034)
- 7.2 Directed Energy Deposition
 - 7.2.1 Overview
 - 7.2.2 Historical and Current Market Trends (2020-2025)
 - 7.2.3 Market Forecast (2026-2034)
- 7.3 Material Extrusion
 - 7.3.1 Overview
 - 7.3.2 Historical and Current Market Trends (2020-2025)
 - 7.3.3 Market Forecast (2026-2034)
- 7.4 Material Jetting
 - 7.4.1 Overview
 - 7.4.2 Historical and Current Market Trends (2020-2025)
 - 7.4.3 Market Forecast (2026-2034)
- 7.5 Power Bed Fusion
 - 7.5.1 Overview
 - 7.5.2 Historical and Current Market Trends (2020-2025)
 - 7.5.3 Market Forecast (2026-2034)

7.6 Sheet Lamination

7.6.1 Overview

7.6.2 Historical and Current Market Trends (2020-2025)

7.6.3 Market Forecast (2026-2034)

7.7 Vat Photopolymerization

7.7.1 Overview

7.7.2 Historical and Current Market Trends (2020-2025)

7.7.3 Market Forecast (2026-2034)

8 SOUTH KOREA 3D PRINTING MARKET - BREAKUP BY MATERIAL

8.1 Photopolymers

8.1.1 Overview

8.1.2 Historical and Current Market Trends (2020-2025)

8.1.3 Market Forecast (2026-2034)

8.2 Plastics

8.2.1 Overview

8.2.2 Historical and Current Market Trends (2020-2025)

8.2.3 Market Forecast (2026-2034)

8.3 Metals and Ceramics

8.3.1 Overview

8.3.2 Historical and Current Market Trends (2020-2025)

8.3.3 Market Forecast (2026-2034)

8.4 Others

8.4.1 Historical and Current Market Trends (2020-2025)

8.4.2 Market Forecast (2026-2034)

9 SOUTH KOREA 3D PRINTING MARKET - BREAKUP BY OFFERING

9.1 Printer

9.1.1 Overview

9.1.2 Historical and Current Market Trends (2020-2025)

9.1.3 Market Forecast (2026-2034)

9.2 Material

9.2.1 Overview

9.2.2 Historical and Current Market Trends (2020-2025)

9.2.3 Market Forecast (2026-2034)

9.3 Software

9.3.1 Overview

9.3.2 Historical and Current Market Trends (2020-2025)

9.3.3 Market Forecast (2026-2034)

9.4 Service

9.4.1 Overview

9.4.2 Historical and Current Market Trends (2020-2025)

9.4.3 Market Forecast (2026-2034)

10 SOUTH KOREA 3D PRINTING MARKET - BREAKUP BY APPLICATION

10.1 Prototyping

10.1.1 Overview

10.1.2 Historical and Current Market Trends (2020-2025)

10.1.3 Market Forecast (2026-2034)

10.2 Tooling

10.2.1 Overview

10.2.2 Historical and Current Market Trends (2020-2025)

10.2.3 Market Forecast (2026-2034)

10.3 Functional Part Manufacturing

10.3.1 Overview

10.3.2 Historical and Current Market Trends (2020-2025)

10.3.3 Market Forecast (2026-2034)

11 SOUTH KOREA 3D PRINTING MARKET - BREAKUP BY END USER

11.1 Consumer Products

11.1.1 Overview

11.1.2 Historical and Current Market Trends (2020-2025)

11.1.3 Market Forecast (2026-2034)

11.2 Machinery

11.2.1 Overview

11.2.2 Historical and Current Market Trends (2020-2025)

11.2.3 Market Forecast (2026-2034)

11.3 Healthcare

11.3.1 Overview

11.3.2 Historical and Current Market Trends (2020-2025)

11.3.3 Market Forecast (2026-2034)

11.4 Aerospace

11.4.1 Overview

11.4.2 Historical and Current Market Trends (2020-2025)

11.4.3 Market Forecast (2026-2034)

11.5 Automobile

11.5.1 Overview

11.5.2 Historical and Current Market Trends (2020-2025)

11.5.3 Market Forecast (2026-2034)

11.6 Others

11.6.1 Historical and Current Market Trends (2020-2025)

11.6.2 Market Forecast (2026-2034)

12 SOUTH KOREA 3D PRINTING MARKET – BREAKUP BY REGION

12.1 Seoul Capital Area

12.1.1 Overview

12.1.2 Historical and Current Market Trends (2020-2025)

12.1.3 Market Breakup by Technology

12.1.4 Market Breakup by Process

12.1.5 Market Breakup by Material

12.1.6 Market Breakup by Offering

12.1.7 Market Breakup by Application

12.1.8 Market Breakup by End User

12.1.9 Key Players

12.1.10 Market Forecast (2026-2034)

12.2 Yeongnam (Southeastern Region)

12.2.1 Overview

12.2.2 Historical and Current Market Trends (2020-2025)

12.2.3 Market Breakup by Technology

12.2.4 Market Breakup by Process

12.2.5 Market Breakup by Material

12.2.6 Market Breakup by Offering

12.2.7 Market Breakup by Application

12.2.8 Market Breakup by End User

12.2.9 Key Players

12.2.10 Market Forecast (2026-2034)

12.3 Honam (Southwestern Region)

12.3.1 Overview

12.3.2 Historical and Current Market Trends (2020-2025)

12.3.3 Market Breakup by Technology

12.3.4 Market Breakup by Process

12.3.5 Market Breakup by Material

- 12.3.6 Market Breakup by Offering
- 12.3.7 Market Breakup by Application
- 12.3.8 Market Breakup by End User
- 12.3.9 Key Players
- 12.3.10 Market Forecast (2026-2034)
- 12.4 Hoseo (Central Region)
 - 12.4.1 Overview
 - 12.4.2 Historical and Current Market Trends (2020-2025)
 - 12.4.3 Market Breakup by Technology
 - 12.4.4 Market Breakup by Process
 - 12.4.5 Market Breakup by Material
 - 12.4.6 Market Breakup by Offering
 - 12.4.7 Market Breakup by Application
 - 12.4.8 Market Breakup by End User
 - 12.4.9 Key Players
 - 12.4.10 Market Forecast (2026-2034)
- 12.5 Others
 - 12.5.1 Historical and Current Market Trends (2020-2025)
 - 12.5.2 Market Forecast (2026-2034)

13 SOUTH KOREA 3D PRINTING MARKET – COMPETITIVE LANDSCAPE

- 13.1 Overview
- 13.2 Market Structure
- 13.3 Market Player Positioning
- 13.4 Top Winning Strategies
- 13.5 Competitive Dashboard
- 13.6 Company Evaluation Quadrant

14 PROFILES OF KEY PLAYERS

- 14.1 Company A
 - 14.1.1 Business Overview
 - 14.1.2 Services Offered
 - 14.1.3 Business Strategies
 - 14.1.4 SWOT Analysis
 - 14.1.5 Major News and Events
- 14.2 Company B
 - 14.2.1 Business Overview

- 14.2.2 Services Offered
- 14.2.3 Business Strategies
- 14.2.4 SWOT Analysis
- 14.2.5 Major News and Events
- 14.3 Company C
 - 14.3.1 Business Overview
 - 14.3.2 Services Offered
 - 14.3.3 Business Strategies
 - 14.3.4 SWOT Analysis
 - 14.3.5 Major News and Events
- 14.4 Company D
 - 14.4.1 Business Overview
 - 14.4.2 Services Offered
 - 14.4.3 Business Strategies
 - 14.4.4 SWOT Analysis
 - 14.4.5 Major News and Events
- 14.5 Company E
 - 14.5.1 Business Overview
 - 14.5.2 Services Offered
 - 14.5.3 Business Strategies
 - 14.5.4 SWOT Analysis
 - 14.5.5 Major News and Events

15 SOUTH KOREA 3D PRINTING MARKET - INDUSTRY ANALYSIS

- 15.1 Drivers, Restraints, and Opportunities
 - 15.1.1 Overview
 - 15.1.2 Drivers
 - 15.1.3 Restraints
 - 15.1.4 Opportunities
- 15.2 Porters Five Forces Analysis
 - 15.2.1 Overview
 - 15.2.2 Bargaining Power of Buyers
 - 15.2.3 Bargaining Power of Suppliers
 - 15.2.4 Degree of Competition
 - 15.2.5 Threat of New Entrants
 - 15.2.6 Threat of Substitutes
- 15.3 Value Chain Analysis

16 APPENDIX

I would like to order

Product name: South Korea 3D Printing Market Size, Share, Trends and Forecast by Technology, Process, Material, Offering, Application, End User, and Region, 2026-2034

Product link: <https://marketpublishers.com/r/SE2D996CEE35EN.html>

Price: US\$ 2,999.00 (Single User License / Electronic Delivery)

If you want to order Corporate License or Hard Copy, please, contact our Customer Service:

info@marketpublishers.com

Payment

To pay by Credit Card (Visa, MasterCard, American Express, PayPal), please, click button on product page <https://marketpublishers.com/r/SE2D996CEE35EN.html>