

South Korea Automation Testing Market Size, Share, Trends and Forecast by Component, Endpoint Interface, Enterprise Size, End User, and Region, 2026-2034

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Abstracts

The South Korea automation testing market size reached USD 710.1 Million in 2025. Looking forward, the market is projected to reach USD 2,416.3 Million by 2034, exhibiting a growth rate (CAGR) of 14.14% during 2026-2034. The market is driven by rapid adoption of Agile and DevOps practices demanding continuous testing, widespread deployment of AI augmented and cloud-based tools enhancing testing efficiency, and government policy support aligned with semiconductor and smart factory modernization imperatives, further augmenting the South Korea automation testing market share.

SOUTH KOREA AUTOMATION TESTING MARKET TRENDS:

Accelerated Software Development and Continuous Delivery Adoption

South Korean enterprises across finance, telecommunications, e-commerce and automotive sectors are embracing Agile and DevOps methodologies to shorten release cycles and maintain quality standards. As development teams adopt continuous integration and continuous delivery pipelines, the integration of automated testing becomes essential to ensure rapid validation of code changes and regression coverage. Automated testing tools support functional, performance, API and mobile testing in repetitive and complex environments, enabling faster identification of defects without human delay. Enterprises are also deploying continuous testing frameworks to validate software quality throughout the development lifecycle. The proliferation of cloud-native environments and hybrid on-premise-cloud platforms increases the importance of

scalable, resilient testing infrastructures. In South Korea's digitally mature ICT ecosystem, procurement decisions now prioritize automation and rapid feedback loops to support faster time to market and reduced error rates, thereby contributing to the South Korea automation testing market growth.

Technological Advancements Including AI-Augmented and Cloud Testing Tools

The introduction of AI-powered testing tools, predictive analytics and self-healing frameworks is transforming the domestic testing landscape. AI-augmented software testing platforms now automate test case generation, optimize regression suites, and detect anomalies through machine learning-based pattern recognition. This improves efficiency and defect detection precision while reducing reliance on manual scripts. The rise of cloud testing solutions further supports remote execution, environment scalability and multi-device testing at lower cost. Organizations can now deploy test infrastructure on demand, leverage hybrid cloud models, and rapidly parallelize test suites. These capabilities are particularly attractive to SMEs and global development centers in digital hubs such as Pangyo Techno Valley. The combination of AI automation and cloud delivery methods enables flexible, cost-effective testing workflows, driving demand for platforms tailored to South Korea's compliance and infrastructure context.

Government Policies, Smart Factory Agenda and Semiconductor Industry Requirements

Public policy in South Korea is fostering an environment conducive to automation adoption. National initiatives such as the Intelligent Robot Development Promotion Act and the establishment of the K-Humanoid Alliance underscore a strategic push toward robotics and AI integration in industrial systems. With electronics and semiconductor fabrication at the core of its economy, South Korea requires rigorous automated testing across IC production and consumer device lifecycle sectors. Automated test equipment (ATE) demand is rising across memory and non-memory IC manufacturers, driven by needs for high-quality throughput in 5G, IoT and automotive components. The government's Industry 4.0 vision and smart factory programs are further promoting in-line process automation and real-time quality assurance. Enterprises are embedding test automation within manufacturing and software pipelines to maintain competitiveness globally.

SOUTH KOREA AUTOMATION TESTING 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 component, endpoint interface, enterprise size, and end user.

Component Insights:

Testing Solutions

Functional Testing

API Testing

Security Testing

Compliance Testing

Usability Testing

Others

Services

Professional Services

Managed Services

The report has provided a detailed breakup and analysis of the market based on the component. This includes testing solutions (functional testing, API testing, security testing, compliance testing, usability testing, and others) and services (professional services and managed services).

Endpoint Interface Insights:

Web

Mobile

Desktop

Embedded Software

The report has provided a detailed breakup and analysis of the market based on the endpoint interface. This includes web, mobile, desktop, and embedded software.

Enterprise Size Insights:

Small and Medium-sized Enterprises

Large Enterprises

The report has provided a detailed breakup and analysis of the market based on the enterprise size. This includes small and medium-sized enterprises and large enterprises.

End User Insights:

IT and Telecommunication

BFSI

Healthcare

Retail

Transportation and Logistics

The report has provided a detailed breakup and analysis of the market based on the end user. This includes IT and telecommunication, BFSI, healthcare, retail, transportation and logistics, and others.

Regional Insights:

Seoul Capital Area

Yeongnam (Southeastern Region)

Honam (Southwestern Region)

Hoseo (Central Region)

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 automation testing market performed so far and how will it perform in the coming years?

What is the breakup of the South Korea automation testing market on the basis of component?

What is the breakup of the South Korea automation testing market on the basis of endpoint interface?

What is the breakup of the South Korea automation testing market on the basis of enterprise size?

What is the breakup of the South Korea automation testing market on the basis of end user?

What is the breakup of the South Korea automation testing market on the basis of region?

What are the various stages in the value chain of the South Korea automation testing market?

What are the key driving factors and challenges in the South Korea automation testing market?

What is the structure of the South Korea automation testing market and who are the key players?

What is the degree of competition in the South Korea automation testing 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 AUTOMATION TESTING MARKET - INTRODUCTION

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

5 SOUTH KOREA AUTOMATION TESTING MARKET LANDSCAPE

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

6 SOUTH KOREA AUTOMATION TESTING MARKET - BREAKUP BY COMPONENT

- 6.1 Testing Solutions
 - 6.1.1 Overview
 - 6.1.2 Historical and Current Market Trends (2020-2025)
 - 6.1.3 Market Segmentation
 - 6.1.3.1 Functional Testing
 - 6.1.3.2 API Testing
 - 6.1.3.3 Security Testing

6.1.3.4 Compliance Testing

6.1.3.5 Usability Testing

6.1.3.6 Others

6.1.4 Market Forecast (2026-2034)

6.2 Services

6.2.1 Overview

6.2.2 Historical and Current Market Trends (2020-2025)

6.2.3 Market Segmentation

6.2.3.1 Professional Services

6.2.3.2 Managed Services

6.2.4 Market Forecast (2026-2034)

7 SOUTH KOREA AUTOMATION TESTING MARKET - BREAKUP BY ENDPOINT INTERFACE

7.1 Web

7.1.1 Overview

7.1.2 Historical and Current Market Trends (2020-2025)

7.1.3 Market Forecast (2026-2034)

7.2 Mobile

7.2.1 Overview

7.2.2 Historical and Current Market Trends (2020-2025)

7.2.3 Market Forecast (2026-2034)

7.3 Desktop

7.3.1 Overview

7.3.2 Historical and Current Market Trends (2020-2025)

7.3.3 Market Forecast (2026-2034)

7.4 Embedded Software

7.4.1 Overview

7.4.2 Historical and Current Market Trends (2020-2025)

7.4.3 Market Forecast (2026-2034)

8 SOUTH KOREA AUTOMATION TESTING MARKET - BREAKUP BY ENTERPRISE SIZE

8.1 Small and Medium-sized Enterprises

8.1.1 Overview

8.1.2 Historical and Current Market Trends (2020-2025)

8.1.3 Market Forecast (2026-2034)

8.2 Large Enterprises

8.2.1 Overview

8.2.2 Historical and Current Market Trends (2020-2025)

8.2.3 Market Forecast (2026-2034)

9 SOUTH KOREA AUTOMATION TESTING MARKET - BREAKUP BY END USER

9.1 IT and Telecommunication

9.1.1 Overview

9.1.2 Historical and Current Market Trends (2020-2025)

9.1.3 Market Forecast (2026-2034)

9.2 BFSI

9.2.1 Overview

9.2.2 Historical and Current Market Trends (2020-2025)

9.2.3 Market Forecast (2026-2034)

9.3 Healthcare

9.3.1 Overview

9.3.2 Historical and Current Market Trends (2020-2025)

9.3.3 Market Forecast (2026-2034)

9.4 Retail

9.4.1 Overview

9.4.2 Historical and Current Market Trends (2020-2025)

9.4.3 Market Forecast (2026-2034)

9.5 Transportation and Logistics

9.5.1 Overview

9.5.2 Historical and Current Market Trends (2020-2025)

9.5.3 Market Forecast (2026-2034)

9.6 Others

9.6.1 Historical and Current Market Trends (2020-2025)

9.6.2 Market Forecast (2026-2034)

10 SOUTH KOREA AUTOMATION TESTING MARKET – BREAKUP BY REGION

10.1 Seoul Capital Area

10.1.1 Overview

10.1.2 Historical and Current Market Trends (2020-2025)

10.1.3 Market Breakup by Component

10.1.4 Market Breakup by Endpoint Interface

10.1.5 Market Breakup by Enterprise Size

- 10.1.6 Market Breakup by End User
- 10.1.7 Key Players
- 10.1.8 Market Forecast (2026-2034)
- 10.2 Yeongnam (Southeastern Region)
 - 10.2.1 Overview
 - 10.2.2 Historical and Current Market Trends (2020-2025)
 - 10.2.3 Market Breakup by Component
 - 10.2.4 Market Breakup by Endpoint Interface
 - 10.2.5 Market Breakup by Enterprise Size
 - 10.2.6 Market Breakup by End User
 - 10.2.7 Key Players
 - 10.2.8 Market Forecast (2026-2034)
- 10.3 Honam (Southwestern Region)
 - 10.3.1 Overview
 - 10.3.2 Historical and Current Market Trends (2020-2025)
 - 10.3.3 Market Breakup by Component
 - 10.3.4 Market Breakup by Endpoint Interface
 - 10.3.5 Market Breakup by Enterprise Size
 - 10.3.6 Market Breakup by End User
 - 10.3.7 Key Players
 - 10.3.8 Market Forecast (2026-2034)
- 10.4 Hoseo (Central Region)
 - 10.4.1 Overview
 - 10.4.2 Historical and Current Market Trends (2020-2025)
 - 10.4.3 Market Breakup by Component
 - 10.4.4 Market Breakup by Endpoint Interface
 - 10.4.5 Market Breakup by Enterprise Size
 - 10.4.6 Market Breakup by End User
 - 10.4.7 Key Players
 - 10.4.8 Market Forecast (2026-2034)
- 10.5 Others
 - 10.5.1 Historical and Current Market Trends (2020-2025)
 - 10.5.2 Market Forecast (2026-2034)

11 SOUTH KOREA AUTOMATION TESTING MARKET – COMPETITIVE LANDSCAPE

- 11.1 Overview
- 11.2 Market Structure

- 11.3 Market Player Positioning
- 11.4 Top Winning Strategies
- 11.5 Competitive Dashboard
- 11.6 Company Evaluation Quadrant

12 PROFILES OF KEY PLAYERS

- 12.1 Company A
 - 12.1.1 Business Overview
 - 12.1.2 Services Offered
 - 12.1.3 Business Strategies
 - 12.1.4 SWOT Analysis
 - 12.1.5 Major News and Events
- 12.2 Company B
 - 12.2.1 Business Overview
 - 12.2.2 Services Offered
 - 12.2.3 Business Strategies
 - 12.2.4 SWOT Analysis
 - 12.2.5 Major News and Events
- 12.3 Company C
 - 12.3.1 Business Overview
 - 12.3.2 Services Offered
 - 12.3.3 Business Strategies
 - 12.3.4 SWOT Analysis
 - 12.3.5 Major News and Events
- 12.4 Company D
 - 12.4.1 Business Overview
 - 12.4.2 Services Offered
 - 12.4.3 Business Strategies
 - 12.4.4 SWOT Analysis
 - 12.4.5 Major News and Events
- 12.5 Company E
 - 12.5.1 Business Overview
 - 12.5.2 Services Offered
 - 12.5.3 Business Strategies
 - 12.5.4 SWOT Analysis
 - 12.5.5 Major News and Events

13 SOUTH KOREA AUTOMATION TESTING MARKET - INDUSTRY ANALYSIS

South Korea Automation Testing Market Size, Share, Trends and Forecast by Component, Endpoint Interface, Enter...

13.1 Drivers, Restraints, and Opportunities

13.1.1 Overview

13.1.2 Drivers

13.1.3 Restraints

13.1.4 Opportunities

13.2 Porters Five Forces Analysis

13.2.1 Overview

13.2.2 Bargaining Power of Buyers

13.2.3 Bargaining Power of Suppliers

13.2.4 Degree of Competition

13.2.5 Threat of New Entrants

13.2.6 Threat of Substitutes

13.3 Value Chain Analysis

14 APPENDIX

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