

# **Hospital Automation Solutions Market Forecasts to 2032 – Global Analysis By Product (Automated Guided Vehicles (AGVs), Smart Beds & Ward Automation, Robotic Surgery Systems, Electronic Health Records (EHR) and Laboratory Automation Systems), Deployment Mode, Technology, Application, End User and By Geography**

<https://marketpublishers.com/r/HBFDBA98173BEN.html>

Date: February 2026

Pages: 200

Price: US\$ 4,150.00 (Single User License)

ID: HBFDBA98173BEN

## **Abstracts**

According to Statistics MRC, the Global Hospital Automation Solutions Market is accounted for \$45.21 billion in 2025 and is expected to reach \$81.08 billion by 2032 growing at a CAGR of 8.7% during the forecast period. Hospital automation solutions refer to integrated technologies designed to streamline clinical, administrative, and operational processes within healthcare facilities. These systems include automated medication dispensing, patient monitoring, laboratory automation, digital records management, and smart infrastructure controls. By reducing manual intervention, hospital automation enhances accuracy, efficiency, and patient safety while optimizing resource utilization. Rooted in established healthcare workflows yet driven by advanced digital systems, these solutions support faster decision-making, reduce operational costs, and improve care quality, enabling hospitals to meet growing patient demands with greater reliability and consistency.

### **Market Dynamics:**

Driver:

Rising Demand for Efficiency & Cost Reduction

Rising demand for operational efficiency and cost reduction is a key driver of the hospital automation solutions market. Healthcare providers face increasing patient volumes, workforce shortages, and cost pressures, compelling hospitals to automate repetitive and time-intensive processes. Automation improves workflow efficiency, reduces human error, and enhances asset utilization across departments. By streamlining clinical and administrative operations, hospitals can lower operational expenses while maintaining quality care. This practical need for efficiency anchors automation as a strategic, long term investment.

Restraint:

### High Implementation Costs

High implementation costs remain a major restraint for hospital automation solutions, particularly for small and mid-sized healthcare facilities. Investments in advanced hardware, software integration, infrastructure upgrades, and staff training require substantial capital. Additionally, ongoing maintenance and system upgrades add to total ownership costs. Budget constraints and uncertain return on investment timelines may delay adoption. Despite long-term efficiency gains, upfront financial burdens continue to limit widespread implementation, especially in cost-sensitive and resource-constrained healthcare environments.

Opportunity:

### Digital Healthcare Transformation

Digital healthcare transformation presents a strong opportunity for the market. The shift toward data-driven, connected healthcare systems is encouraging hospitals to adopt integrated automation platforms. Technologies such as artificial intelligence, Internet of Things, and cloud-based systems are enabling real-time monitoring, predictive analytics, and smarter decision-making. As hospitals modernize legacy systems, automation becomes central to improving care coordination and operational transparency. This transition blends traditional clinical practices with advanced digital capabilities to reshape future ready hospitals.

Threat:

### Regulatory & Compliance Challenges

Regulatory and compliance challenges pose a significant threat to the adoption of hospital automation solutions. Healthcare automation systems must comply with stringent data protection, patient safety, and medical device regulations that vary across regions. Frequent policy updates and complex certification processes increase compliance costs and implementation timelines. Any non compliance can result in penalties and reputational damage. Navigating these evolving regulatory landscapes requires continuous investment and expertise, potentially slowing innovation and market expansion.

### **Covid-19 Impact:**

The COVID-19 pandemic accelerated the adoption of hospital automation solutions by exposing inefficiencies in traditional healthcare operations. Surge in patient admissions, infection control requirements, and staff shortages highlighted the need for automation in monitoring, diagnostics, and workflow management. Automated systems reduced physical contact and supported remote care delivery. Although supply chain disruptions temporarily affected deployment, the pandemic reinforced the strategic value of automation, embedding it more firmly into long-term hospital modernization plans.

The robotic surgery systems segment is expected to be the largest during the forecast period

The robotic surgery systems segment is expected to account for the largest market share during the forecast period, due to its precision, minimally invasive capabilities, and improved surgical outcomes. These systems enhance surgeon control, reduce recovery time, and lower complication rates. Growing demand for advanced surgical procedures and investments by large hospitals support widespread adoption. Rooted in surgical excellence and enabled by robotics and imaging technologies, this segment represents the most advanced and high value component of hospital automation.

The hospitals & clinics segment is expected to have the highest CAGR during the forecast period

Over the forecast period, the hospitals & clinics segment is predicted to witness the highest growth rate, due to increasing automation adoption across core healthcare settings. Rising patient inflow, operational complexity, and emphasis on quality outcomes are driving facilities to invest in automation solutions. Hospitals and clinics are integrating automated dispensing, monitoring, and digital records to enhance efficiency and patient safety. Their central role in healthcare delivery positions them as primary

adopters of comprehensive automation platforms.

### **Region with largest share:**

During the forecast period, the North America region is expected to hold the largest market share, owing to advanced healthcare infrastructure and early adoption of automation technologies. Strong focus on patient safety, cost optimization, and clinical efficiency supports rapid uptake of automated systems. High healthcare spending, favorable reimbursement structures, and continuous technological innovation further accelerate growth. The region's emphasis on data driven care and smart hospitals positions it at the forefront of hospital automation advancement.

### **Region with highest CAGR:**

Over the forecast period, the Asia Pacific region is anticipated to exhibit the highest CAGR, due to rapid healthcare infrastructure development and rising demand for efficient hospital operations. Growing populations, increasing chronic disease burden, and expanding medical tourism are accelerating automation investments. Governments across the region are promoting digital health initiatives to modernize hospitals. Combined with improving technological adoption and cost-effective solutions, Asia Pacific stands as a dominant contributor to global market growth.

### **Key players in the market**

Some of the key players in Hospital Automation Solutions Market include Siemens Healthineers, Fujifilm Healthcare, GE Healthcare, Ascom Holding AG, Philips Healthcare, Omron Healthcare, Medtronic, Schneider Electric, Stryker Corporation, Becton, Dickinson and Company (BD), Cerner Corporation (Oracle Health), Honeywell International, McKesson Corporation, Omnicell, Inc., and Intuitive Surgical.

### **Key Developments:**

In November 2025, Siemens Healthineers introduced Syngo Carbon 2.0, an upgraded enterprise imaging platform. The launch integrates multimodal imaging data, AI-powered workflow automation, and cloud-based collaboration, designed to streamline radiology operations and improve diagnostic accuracy across global healthcare systems.

In October 2025, Siemens Healthineers expanded its collaboration with Varian and

multiple oncology centers to accelerate precision therapy solutions. The joint venture integrates imaging, radiation therapy, and AI-driven planning tools, aiming to improve cancer treatment outcomes and strengthen Siemens' leadership in oncology care.

#### Products Covered:

Automated Guided Vehicles (AGVs)

Smart Beds & Ward Automation

Robotic Surgery Systems

Electronic Health Records (EHR)

Pharmacy Automation Systems

Patient Monitoring Systems

Laboratory Automation Systems

#### Deployment Modes Covered:

On-Premise Solutions

Cloud-Based Solutions

Hybrid Models

#### Technologies Covered:

Artificial Intelligence (AI) & Machine Learning

Robotics & Process Automation (RPA)

Internet of Things (IoT) & Connected Devices

Blockchain in Healthcare Automation

## Cloud Computing & Big Data Analytics

### Applications Covered:

Clinical Workflow Automation

Patient Care & Monitoring

Administrative Workflow Automation

Diagnostic & Laboratory Automation

Supply Chain & Logistics Automation

Pharmacy & Medication Management

### End Users Covered:

Hospitals & Clinics

Ambulatory Surgical Centers

Diagnostic Laboratories

Research & Academic Institutes

Pharmacies

### Regions Covered:

North America

US

Canada

Mexico

Europe

Germany

UK

Italy

France

Spain

Rest of Europe

Asia Pacific

Japan

China

India

Australia

New Zealand

South Korea

Rest of Asia Pacific

South America

Argentina

Brazil

Chile

Rest of South America

Middle East & Africa

Saudi Arabia

UAE

Qatar

South Africa

Rest of Middle East & Africa

What our report offers:

- Market share assessments for the regional and country-level segments
- Strategic recommendations for the new entrants
- Covers Market data for the years 2024, 2025, 2026, 2028, and 2032
- Market Trends (Drivers, Constraints, Opportunities, Threats, Challenges, Investment Opportunities, and recommendations)
- Strategic recommendations in key business segments based on the market estimations
- Competitive landscaping mapping the key common trends
- Company profiling with detailed strategies, financials, and recent developments
- Supply chain trends mapping the latest technological advancements

### **Free Customization Offerings:**

All the customers of this report will be entitled to receive one of the following free customization options:

Company Profiling

Comprehensive profiling of additional market players (up to 3)

SWOT Analysis of key players (up to 3)

## Regional Segmentation

Market estimations, Forecasts and CAGR of any prominent country as per the client's interest (Note: Depends on feasibility check)

## Competitive Benchmarking

Benchmarking of key players based on product portfolio, geographical presence, and strategic alliances

## Contents

### **1 EXECUTIVE SUMMARY**

### **2 PREFACE**

- 2.1 Abstract
- 2.2 Stake Holders
- 2.3 Research Scope
- 2.4 Research Methodology
  - 2.4.1 Data Mining
  - 2.4.2 Data Analysis
  - 2.4.3 Data Validation
  - 2.4.4 Research Approach
- 2.5 Research Sources
  - 2.5.1 Primary Research Sources
  - 2.5.2 Secondary Research Sources
  - 2.5.3 Assumptions

### **3 MARKET TREND ANALYSIS**

- 3.1 Introduction
- 3.2 Drivers
- 3.3 Restraints
- 3.4 Opportunities
- 3.5 Threats
- 3.6 Product Analysis
- 3.7 Technology Analysis
- 3.8 Application Analysis
- 3.9 End User Analysis
- 3.10 Emerging Markets
- 3.11 Impact of Covid-19

### **4 PORTERS FIVE FORCE ANALYSIS**

- 4.1 Bargaining power of suppliers
- 4.2 Bargaining power of buyers
- 4.3 Threat of substitutes
- 4.4 Threat of new entrants

#### 4.5 Competitive rivalry

### **5 GLOBAL HOSPITAL AUTOMATION SOLUTIONS MARKET, BY PRODUCT**

- 5.1 Introduction
- 5.2 Automated Guided Vehicles (AGVs)
- 5.3 Smart Beds & Ward Automation
- 5.4 Robotic Surgery Systems
- 5.5 Electronic Health Records (EHR)
- 5.6 Pharmacy Automation Systems
- 5.7 Patient Monitoring Systems
- 5.8 Laboratory Automation Systems

### **6 GLOBAL HOSPITAL AUTOMATION SOLUTIONS MARKET, BY DEPLOYMENT MODE**

- 6.1 Introduction
- 6.2 On-Premise Solutions
- 6.3 Cloud-Based Solutions
- 6.4 Hybrid Models

### **7 GLOBAL HOSPITAL AUTOMATION SOLUTIONS MARKET, BY TECHNOLOGY**

- 7.1 Introduction
- 7.2 Artificial Intelligence (AI) & Machine Learning
- 7.3 Robotics & Process Automation (RPA)
- 7.4 Internet of Things (IoT) & Connected Devices
- 7.5 Blockchain in Healthcare Automation
- 7.6 Cloud Computing & Big Data Analytics

### **8 GLOBAL HOSPITAL AUTOMATION SOLUTIONS MARKET, BY APPLICATION**

- 8.1 Introduction
- 8.2 Clinical Workflow Automation
- 8.3 Patient Care & Monitoring
- 8.4 Administrative Workflow Automation
- 8.5 Diagnostic & Laboratory Automation
- 8.6 Supply Chain & Logistics Automation
- 8.7 Pharmacy & Medication Management

## **9 GLOBAL HOSPITAL AUTOMATION SOLUTIONS MARKET, BY END USER**

- 9.1 Introduction
- 9.2 Hospitals & Clinics
- 9.3 Ambulatory Surgical Centers
- 9.4 Diagnostic Laboratories
- 9.5 Research & Academic Institutes
- 9.6 Pharmacies

## **10 GLOBAL HOSPITAL AUTOMATION SOLUTIONS MARKET, BY GEOGRAPHY**

- 10.1 Introduction
- 10.2 North America
  - 10.2.1 US
  - 10.2.2 Canada
  - 10.2.3 Mexico
- 10.3 Europe
  - 10.3.1 Germany
  - 10.3.2 UK
  - 10.3.3 Italy
  - 10.3.4 France
  - 10.3.5 Spain
  - 10.3.6 Rest of Europe
- 10.4 Asia Pacific
  - 10.4.1 Japan
  - 10.4.2 China
  - 10.4.3 India
  - 10.4.4 Australia
  - 10.4.5 New Zealand
  - 10.4.6 South Korea
  - 10.4.7 Rest of Asia Pacific
- 10.5 South America
  - 10.5.1 Argentina
  - 10.5.2 Brazil
  - 10.5.3 Chile
  - 10.5.4 Rest of South America
- 10.6 Middle East & Africa
  - 10.6.1 Saudi Arabia

- 10.6.2 UAE
- 10.6.3 Qatar
- 10.6.4 South Africa
- 10.6.5 Rest of Middle East & Africa

## **11 KEY DEVELOPMENTS**

- 11.1 Agreements, Partnerships, Collaborations and Joint Ventures
- 11.2 Acquisitions & Mergers
- 11.3 New Product Launch
- 11.4 Expansions
- 11.5 Other Key Strategies

## **12 COMPANY PROFILING**

- 12.1 Siemens Healthineers
- 12.2 Fujifilm Healthcare
- 12.3 GE Healthcare
- 12.4 Ascom Holding AG
- 12.5 Philips Healthcare
- 12.6 Omron Healthcare
- 12.7 Medtronic
- 12.8 Schneider Electric
- 12.9 Stryker Corporation
- 12.10 Becton, Dickinson and Company (BD)
- 12.11 Cerner Corporation (Oracle Health)
- 12.12 Honeywell International
- 12.13 McKesson Corporation
- 12.14 Omnicell, Inc.
- 12.15 Intuitive Surgical

## List Of Tables

### LIST OF TABLES

Table 1 Global Hospital Automation Solutions Market Outlook, By Region (2024-2032) (\$MN)

Table 2 Global Hospital Automation Solutions Market Outlook, By Product (2024-2032) (\$MN)

Table 3 Global Hospital Automation Solutions Market Outlook, By Automated Guided Vehicles (AGVs) (2024-2032) (\$MN)

Table 4 Global Hospital Automation Solutions Market Outlook, By Smart Beds & Ward Automation (2024-2032) (\$MN)

Table 5 Global Hospital Automation Solutions Market Outlook, By Robotic Surgery Systems (2024-2032) (\$MN)

Table 6 Global Hospital Automation Solutions Market Outlook, By Electronic Health Records (EHR) (2024-2032) (\$MN)

Table 7 Global Hospital Automation Solutions Market Outlook, By Pharmacy Automation Systems (2024-2032) (\$MN)

Table 8 Global Hospital Automation Solutions Market Outlook, By Patient Monitoring Systems (2024-2032) (\$MN)

Table 9 Global Hospital Automation Solutions Market Outlook, By Laboratory Automation Systems (2024-2032) (\$MN)

Table 10 Global Hospital Automation Solutions Market Outlook, By Deployment Mode (2024-2032) (\$MN)

Table 11 Global Hospital Automation Solutions Market Outlook, By On-Premise Solutions (2024-2032) (\$MN)

Table 12 Global Hospital Automation Solutions Market Outlook, By Cloud-Based Solutions (2024-2032) (\$MN)

Table 13 Global Hospital Automation Solutions Market Outlook, By Hybrid Models (2024-2032) (\$MN)

Table 14 Global Hospital Automation Solutions Market Outlook, By Technology (2024-2032) (\$MN)

Table 15 Global Hospital Automation Solutions Market Outlook, By Artificial Intelligence (AI) & Machine Learning (2024-2032) (\$MN)

Table 16 Global Hospital Automation Solutions Market Outlook, By Robotics & Process Automation (RPA) (2024-2032) (\$MN)

Table 17 Global Hospital Automation Solutions Market Outlook, By Internet of Things (IoT) & Connected Devices (2024-2032) (\$MN)

Table 18 Global Hospital Automation Solutions Market Outlook, By Blockchain in

Healthcare Automation (2024-2032) (\$MN)

Table 19 Global Hospital Automation Solutions Market Outlook, By Cloud Computing & Big Data Analytics (2024-2032) (\$MN)

Table 20 Global Hospital Automation Solutions Market Outlook, By Application (2024-2032) (\$MN)

Table 21 Global Hospital Automation Solutions Market Outlook, By Clinical Workflow Automation (2024-2032) (\$MN)

Table 22 Global Hospital Automation Solutions Market Outlook, By Patient Care & Monitoring (2024-2032) (\$MN)

Table 23 Global Hospital Automation Solutions Market Outlook, By Administrative Workflow Automation (2024-2032) (\$MN)

Table 24 Global Hospital Automation Solutions Market Outlook, By Diagnostic & Laboratory Automation (2024-2032) (\$MN)

Table 25 Global Hospital Automation Solutions Market Outlook, By Supply Chain & Logistics Automation (2024-2032) (\$MN)

Table 26 Global Hospital Automation Solutions Market Outlook, By Pharmacy & Medication Management (2024-2032) (\$MN)

Table 27 Global Hospital Automation Solutions Market Outlook, By End User (2024-2032) (\$MN)

Table 28 Global Hospital Automation Solutions Market Outlook, By Hospitals & Clinics (2024-2032) (\$MN)

Table 29 Global Hospital Automation Solutions Market Outlook, By Ambulatory Surgical Centers (2024-2032) (\$MN)

Table 30 Global Hospital Automation Solutions Market Outlook, By Diagnostic Laboratories (2024-2032) (\$MN)

Table 31 Global Hospital Automation Solutions Market Outlook, By Research & Academic Institutes (2024-2032) (\$MN)

Table 32 Global Hospital Automation Solutions Market Outlook, By Pharmacies (2024-2032) (\$MN)

Note: Tables for North America, Europe, APAC, South America, and Middle East & Africa Regions are also represented in the same manner as above.

## I would like to order

Product name: Hospital Automation Solutions Market Forecasts to 2032 – Global Analysis By Product (Automated Guided Vehicles (AGVs), Smart Beds & Ward Automation, Robotic Surgery Systems, Electronic Health Records (EHR) and Laboratory Automation Systems), Deployment Mode, Technology, Application, End User and By Geography

Product link: <https://marketpublishers.com/r/HBFDBA98173BEN.html>

Price: US\$ 4,150.00 (Single User License / Electronic Delivery)

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

[info@marketpublishers.com](mailto:info@marketpublishers.com)

## Payment

To pay by Credit Card (Visa, MasterCard, American Express, PayPal), please, click button on product page <https://marketpublishers.com/r/HBFDBA98173BEN.html>