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Global Autonomous Robotic Phlebotomy Device Market 2026 by Manufacturers, Regions, Type and Application, Forecast to 2032

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Abstracts

According to our (Global Info Research) latest study, the global Autonomous Robotic Phlebotomy Device market size was valued at US$ 3.22 million in 2025 and is forecast to a readjusted size of US$ 48.12 million by 2032 with a CAGR of 37.1% during review period.

The Autonomous Robotic Phlebotomy Device is a medical robot system designed for hospital blood collection windows, medical examination centers, and pre-processing scenarios in medical laboratories. Its core capability is to use near-infrared and ultrasound technology to detect veins, reconstruct vein images using 3D technology, and then use AI algorithms to intelligently analyze the images, selecting the most appropriate location and method for needle insertion to achieve automated intravenous puncture blood testing. The system typically integrates identity verification, doctor's order matching, catheter and needle supply, disinfection, pulse pressure, quantitative blood collection, catheter replacement, mixing, hemostasis, and traceability recording, forming an auditable closed-loop blood collection workflow. This aims to improve the first-time puncture success rate, reduce pre-test errors, and alleviate the shortage of blood collection personnel. In 2025, the global production of Autonomous Robotic Phlebotomy Devices was approximately 32 units, with a unit price of approximately US$97,800 and a gross profit margin of approximately 45%–65%.

Currently, blood collection still faces many challenges, with poor visibility and inaccurate punctures being the main issues. Infants' blood vessels are very thin, and those with thicker fat layers or darker skin tones often have blood vessels that are difficult to visually assess. The failure rate for first-time intravenous punctures in children is around 44%, and repeated punctures increase the psychological stress on nurses. Due to

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various factors, the efficiency of blood collection and testing in many hospitals is not high. During peak blood collection periods, the average waiting time for patients is 24 minutes, with over 64.5% of patients waiting more than 15 minutes. Even in commercial medical examination institutions, the average time for a 'trial' blood collection exceeds 10 minutes. From a clinical perspective, many hospitals face the pain point of high blood collection pressure, creating a significant demand for blood collection robots. Furthermore, the long-term shortage of nursing staff has spurred the need for 'substitute labor.' Currently, automation solutions exist for queuing, blood collection tube sorting, blood diagnosis, and report output; only the blood collection process still relies on manual labor. Future machine replacement will complete the automated closed loop of blood diagnosis. From the perspective of practical applications in healthcare, blood collection robots are still in their early stages of development. Due to factors such as cost and hospital procurement processes, their deployment is currently limited to large tertiary hospitals. Companies in this sector are primarily focused on research and development; future commercialization may require greater reliance on external Contract Sales Organizations (CSOs) to gradually penetrate hospitals. Globally, the European and American markets hold significant potential, as nurses in these countries have lower success rates with manual intravenous punctures, making them prime candidates for robot-assisted procedures. However, cost reduction is a key factor for commercialization. Currently, blood collection robots entering the market are expensive. Significant commercial and social value will only be realized after technological advancements and their integration into primary healthcare systems.

This report is a detailed and comprehensive analysis for global Autonomous Robotic Phlebotomy Device market. Both quantitative and qualitative analyses are presented by manufacturers, by region & country, by Type and by Application. As the market is constantly changing, this report explores the competition, supply and demand trends, as well as key factors that contribute to its changing demands across many markets. Company profiles and product examples of selected competitors, along with market share estimates of some of the selected leaders for the year 2025, are provided.

Key Features:

Global Autonomous Robotic Phlebotomy Device market size and forecasts, in consumption value ($ Million), sales quantity (Units), and average selling prices (K US$/Unit), 2021-2032

Global Autonomous Robotic Phlebotomy Device market size and forecasts by region and country, in consumption value ($ Million), sales quantity (Units), and average selling

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prices (K US$/Unit), 2021-2032

Global Autonomous Robotic Phlebotomy Device market size and forecasts, by Type and by Application, in consumption value ($ Million), sales quantity (Units), and average selling prices (K US$/Unit), 2021-2032

Global Autonomous Robotic Phlebotomy Device market shares of main players, shipments in revenue ($ Million), sales quantity (Units), and ASP (K US$/Unit), 2021-2026

The Primary Objectives in This Report Are:
To determine the size of the total market opportunity of global and key countries
To assess the growth potential for Autonomous Robotic Phlebotomy Device
To forecast future growth in each product and end-use market
To assess competitive factors affecting the marketplace

This report profiles key players in the global Autonomous Robotic Phlebotomy Device market based on the following parameters - company overview, sales quantity, revenue, price, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include Veebot System, BHealthCare(HEIVA), Vitestro, Jiangsu Hagong Intelligent Robot Co.,Ltd., Beijing mainashi Surgical Robot Technology Co. Ltd., Chengdu Kairui Medical Technology Co., Ltd. (Aixam), etc.

This report also provides key insights about market drivers, restraints, opportunities, new product launches or approvals.

Market Segmentation

Autonomous Robotic Phlebotomy Device market is split by Type and by Application. For the period 2021-2032, the growth among segments provides accurate calculations and forecasts for consumption value by Type, and by Application in terms of volume and value. This analysis can help you expand your business by targeting qualified niche markets.

Market segment by Type

Fixed Kiosk Station

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Mobile Cart/Desktop Workstation

Market segment by Modules

Blood Collection and Puncture Module

Multi-technology Modules

Market segment by Sales Channel

Direct Sales

Distributor Sales

Market segment by Application

Hospital

Health Checkup Center

Others

Major players covered

Veebot System

BHealthCare(HEIVA)

Vitestro

Jiangsu Hagong Intelligent Robot Co.,Ltd.

Beijing mainashi Surgical Robot Technology Co. Ltd.

Chengdu Kairui Medical Technology Co., Ltd. (Aixam)

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Market segment by region, regional analysis covers
North America (United States, Canada, and Mexico)
Europe (Germany, France, United Kingdom, Russia, Italy, and Rest of Europe)
Asia-Pacific (China, Japan, Korea, India, Southeast Asia, and Australia)
South America (Brazil, Argentina, Colombia, and Rest of South America)
Middle East & Africa (Saudi Arabia, UAE, Egypt, South Africa, and Rest of Middle East & Africa)

The content of the study subjects, includes a total of 15 chapters:

Chapter 1, to describe Autonomous Robotic Phlebotomy Device product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Autonomous Robotic Phlebotomy Device, with price, sales quantity, revenue, and global market share of Autonomous Robotic Phlebotomy Device from 2021 to 2026.

Chapter 3, the Autonomous Robotic Phlebotomy Device competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the Autonomous Robotic Phlebotomy Device breakdown data are shown at the regional level, to show the sales quantity, consumption value, and growth by regions, from 2021 to 2032.

Chapter 5 and 6, to segment the sales by Type and by Application, with sales market share and growth rate by Type, by Application, from 2021 to 2032.

Chapter 7, 8, 9, 10 and 11, to break the sales data at the country level, with sales quantity, consumption value, and market share for key countries in the world, from 2021 to 2026.and Autonomous Robotic Phlebotomy Device market forecast, by regions, by Type, and by Application, with sales and revenue, from 2027 to 2032.

Chapter 12, market dynamics, drivers, restraints, trends, and Porters Five Forces analysis.

Chapter 13, the key raw materials and key suppliers, and industry chain of Autonomous

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Robotic Phlebotomy Device.

Chapter 14 and 15, to describe Autonomous Robotic Phlebotomy Device sales channel, distributors, customers, research findings and conclusion.

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