

Global Fruit and Vegetable Picking Robot 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 Fruit and Vegetable Picking Robot market size was valued at US\$ 46.34 million in 2025 and is forecast to a readjusted size of US\$ 104 million by 2032 with a CAGR of 12.3% during review period.

In 2024, global Fruit and Vegetable Picking Robot production reached approximately 363 units, with an average global market price of around US\$ 110k per unit.

A fruit and vegetable picking robot is a type of intelligent agricultural equipment designed to automatically harvest fruits and vegetables in orchards, greenhouses, and other controlled farming environments. It typically consists of a mobile platform (wheeled or tracked), one or more multi-degree-of-freedom robotic arms, flexible end-effectors (grippers or suction cups), a vision and sensing system, and a control and navigation system. Using RGB and depth cameras, LiDAR, and various environmental sensors, the robot identifies the crop type, maturity, and spatial position of each fruit or vegetable; then, with computer vision and deep-learning algorithms, it performs target detection and 3D localization, after which the arm follows a planned trajectory to approach the fruit and harvest it gently with soft robotic grippers, vacuum suction cups, or cutting mechanisms, placing it into collection bins or onto conveyors. Compared with manual picking, fruit and vegetable picking robots can operate continuously at night or during hot periods, reduce dependence on seasonal labor and physically demanding work, and, by standardizing operating parameters, help lower bruising and damage rates as well as missed fruit. They are mainly used for high-value crops such as tomatoes, cucumbers, sweet peppers, strawberries, apples, and citrus in protected cultivation and intensive orchard production, evolving toward precise recognition + gentle manipulation + intelligent scheduling.

In the value chain, fruit and vegetable picking robots occupy a midstream position within the 'smart agricultural machinery' ecosystem, relying on both mechanical structure and materials suppliers and high-value components such as motors, gearboxes, sensors, and compute platforms. On the mechanical and material side, upstream suppliers provide structural steel and aluminum profiles, engineering plastics and rubber parts (for housings, guards, and tires), precision bearings and linear guides, as well as drive components such as servo motors, gear reducers, and tracked or wheeled undercarriages for robotic arms and mobile bases. Representative upstream suppliers include steel producers like ArcelorMittal and Nippon Steel, aluminum companies such as Chalco and Novelis, motor manufacturers like Maxon and Nidec, precision gearbox vendors such as Harmonic Drive and Nabtesco, and chemical/material companies like BASF, SABIC, and Dow for engineering plastics and sealing materials. On the intelligent subsystem side, upstream includes industrial and depth camera vendors (e.g., Basler, IDS, Intel RealSense), LiDAR and 3D vision sensor providers, embedded controllers and AI modules (e.g., NVIDIA, NXP, STMicroelectronics), and specialist suppliers of soft grippers, soft-robotic end-effectors, and food-grade silicone and polyurethane materials. Midstream players are the robot OEMs and system integrators, who develop complete platforms centered on specific crops and cultivation patterns, integrating chassis drive systems, robotic arms and end-effectors, control systems, computer-vision and path-planning algorithms, human-machine interfaces, remote monitoring, and connections to farm management and yield-statistics systems. Downstream customers include large greenhouse and protected-agriculture operators, modern orchards and farms, agricultural service providers and cooperatives, new-type agricultural business entities, and high-end smart-ag demo parks and research institutes—for example, large-scale orchard operators, greenhouse tomato/cucumber bases, strawberry and berry farms, and 'shared agricultural machinery' or service companies that offer harvesting-as-a-service to multiple farms. These customers deploy fruit and vegetable picking robots to alleviate labor shortages, increase harvesting efficiency and standardization, and are most likely to adopt them first for high-value crops with intensive peak harvest periods and strict quality requirements.

From a market perspective, fruit and vegetable picking robots represent a cutting-edge but still early-stage commercialization niche within smart agricultural machinery. The key challenge lies in balancing the high technical complexity and challenging operating environments against price-sensitive, long-payback agricultural economics. On the one hand, many regions face aging farm labor, shortages of seasonal workers, and rising wages, while high-value horticultural crops—such as greenhouse tomatoes, strawberries, berries, and premium apples and citrus—are under growing pressure to

adopt automation. At the same time, increasing standardization in greenhouse layouts and orchard restructuring toward dwarf, high-density, and mechanization-friendly tree architectures is creating more favorable conditions for robotic harvesting. On the other hand, picking robots must operate reliably under varying lighting, heavy foliage occlusion, diverse fruit shapes, and delicate surfaces; they still lag behind manual labor in picking speed, per-robot throughput, adaptability to different varieties and cultivation systems, and long-term reliability, while system costs remain high. As a result, the current market is largely concentrated in demonstration projects, research pilots, and specific crops or regions with acute labor constraints and high crop value. In the medium term, as soft grippers, 3D vision, and robotic manipulation algorithms improve and as protected cultivation becomes more standardized, the penetration of picking robots in greenhouses and certain standardized orchards is expected to rise steadily, especially under ?human?robot collaboration plus leasing/service-based? business models that shorten payback periods for growers. Over the longer term, the trajectory of this market will depend on policy support for smart agriculture, the evolution of crop prices and labor costs, continued optimization of cultivation systems to be more robot-friendly, and sustained improvements in robot reliability and lifecycle operating costs. Overall, fruit and vegetable picking robots are characterized by high technical barriers, small current scale, strong growth potential, and high sensitivity to specific crops and scenarios, making them one of the most promising medium- to long-term growth directions in smart agriculture.

This report is a detailed and comprehensive analysis for global Fruit and Vegetable Picking Robot 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 Fruit and Vegetable Picking Robot market size and forecasts, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2021-2032

Global Fruit and Vegetable Picking Robot market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2021-2032

Global Fruit and Vegetable Picking Robot market size and forecasts, by Type and by Application, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2021-2032

Global Fruit and Vegetable Picking Robot market shares of main players, shipments in revenue (\$ Million), sales quantity (K Units), and ASP (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 Fruit and Vegetable Picking Robot

- 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 Fruit and Vegetable Picking Robot 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 Tevel, Robotics Plus, Octinion, MetoMotion, Niqo Sense, Agrobot, Harvest CROO Robotics, Dogtooth Technologies, Fieldwork Robotics, Fdata Robot, etc.

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

Market Segmentation

Fruit and Vegetable Picking Robot 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

Single-arm Robot

Multi-arm Robot

Market segment by Mobility Methods

Rail-mounted

Wheeled

Tracked

Market segment by Application Scenarios

Indoor Robots

Outdoor Robots

Market segment by Application

Orchard

Greenhouse

Others

Major players covered

Tevel

Robotics Plus

Octinion

MetoMotion

Niqo Sense

Agrobot

Harvest CROO Robotics

Dogtooth Technologies

Fieldwork Robotics

Fdata Robot

Botian Automation Technology

Vizum Technology

Yikun Electrical Engineering

Qogori

AIForce Technology

Tiansun Technology

Planrobot

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 Fruit and Vegetable Picking Robot product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Fruit and Vegetable Picking Robot, with price, sales quantity, revenue, and global market share of Fruit and Vegetable Picking Robot from 2021 to 2026.

Chapter 3, the Fruit and Vegetable Picking Robot competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the Fruit and Vegetable Picking Robot 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 Fruit and Vegetable Picking Robot 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 Fruit and Vegetable Picking Robot.

Chapter 14 and 15, to describe Fruit and Vegetable Picking Robot sales channel, distributors, customers, research findings and conclusion.

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