

Global Tomato Harvesting 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 Tomato Harvesting Robot market size was valued at US\$ 27.16 million in 2025 and is forecast to a readjusted size of US\$ 59.15 million by 2032 with a CAGR of 11.7% during review period.

The tomato harvesting robot is a smart agricultural equipment that uses machine vision technology and automated control systems. It can accurately identify and locate ripe tomatoes and automatically complete the picking and collection work. It is characterized by efficient operation, precise picking, low damage rate, and can operate stably in complex and changeable farmland environments, greatly reducing the labor intensity of manual picking, and improving picking efficiency and the automation level of agricultural production. In 2025, global Tomato Harvesting Robot production reached approximately 240 units with an average global market price of around k US\$110 per unit.

The tomato harvesting robot industry is currently in a phase of rapid development, with the global transformation toward smart agriculture presenting significant opportunities for this field. As a pioneer in the industry, the Chinese Academy of Agricultural Mechanization Sciences has successfully made breakthroughs in multiple key technologies and developed a range of robot products covering the entire process of planting, harvesting, and field management, significantly enhancing agricultural production efficiency and quality. These robots leverage various sensing technologies such as vision and LiDAR, integrating AI deep learning and large model training algorithms to achieve precise recognition and localization of tomatoes and their peduncles. Combined with an innovative clip-and-cut integrated end-effector and an autonomous mobile chassis, they demonstrate outstanding performance. The

YOLOv8np-RCW model proposed by Professor Yuan Ting's team at China Agricultural University employs a decoupled head structure to simultaneously detect tomato clusters, ripeness, and picking keypoints, providing an efficient solution for the industry. Currently, China's research output in agricultural robotics has surpassed that of the United States, with a particular focus on harvesting and picking robots. In the future, the industry must overcome challenges related to environmental adaptability, strengthen cross-disciplinary collaboration, and explore more flexible business models, such as developing interchangeable end-effectors to improve robot utilization. Facility horticulture robots have already achieved labor-reduced operations across the entire tomato planting process, including transportation, spraying, pollination, inspection, and harvesting, offering a diversified development pathway for the industry.

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

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

Global Tomato Harvesting Robot 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 Tomato Harvesting Robot 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 Tomato Harvesting 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 Tomato Harvesting 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 Inaho, Certhon, MetoMotion, TTA-ISO, Tokuiten, Four Growers, GRoW, Ridder, Suzhou Botian Automation Technology, Tianfalcon (Wuhan) Technology, etc.

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

Market Segmentation

Tomato Harvesting 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

track-motion

Self-propelled

Market segment by System Configuration

Single Arm

Dual Arm

Market segment by Automation Level

Fully Automated

Semi-automated

Market segment by Application

Farmland

Greenhouse

Others

Major players covered

Inaho

Certhon

MetoMotion

TTA-ISO

Tokuiten

Four Growers

GRoW

Ridder

Suzhou Botian Automation Technology

Tianfalcon (Wuhan) Technology

Hangzhou Qogori(K2) Tech

Beijing AIForce Technology

Nanjing Xiyue Intelligent Technology

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 Tomato Harvesting Robot product scope, market overview, market estimation caveats and base year.

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

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

Chapter 4, the Tomato Harvesting 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 Tomato Harvesting 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 Tomato Harvesting Robot.

Chapter 14 and 15, to describe Tomato Harvesting Robot sales channel, distributors, customers, research findings and conclusion.

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