

Global Flexible Fruit and Vegetable Picking Grippers Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Flexible Fruit and Vegetable Picking Grippers market size is expected to reach \$ 294 million by 2032, rising at a market growth of 8.5% CAGR during the forecast period (2026-2032).

In 2025, the global production of food-grade flexible fruit and vegetable harvesting grippers will reach 1.34 million sets. The average market price of global products is about US\$110 per set. Domestic products have significant price ranges depending on their positioning. The price of civilian manual models ranges from RMB 20 to RMB 80, while the mainstream price range of industrial-grade basic models for large-scale applications is RMB 300 to RMB 2,000, and the highest price of high-end customized models can reach RMB 8,000.

This product is the core end effector of fruit and vegetable picking robots and automated harvesting and sorting equipment. It is specifically designed for the irregular shapes and delicate, easily damaged skin of fruits and vegetables. Using food-grade flexible elastic materials as its core gripping structure, it achieves adaptive deformation through pneumatic/electric drive, replacing the point contact of traditional rigid grippers with surface contact. This significantly reduces the breakage rate of fruits and vegetables during handling. Some high-end products integrate multiple sensor systems, enabling integrated 'gripping-twisting-stem breaking' picking actions, suitable for all scenarios from field harvesting to post-harvest sorting. Its industrial chain is divided into three core links: upstream are basic suppliers of flexible materials and drive components; midstream are the core technology links of gripper R&D and manufacturing and whole machine system integration; and downstream terminals are mainly large-scale fruit and vegetable planting bases and fresh food e-commerce supply chain companies. Market demand is continuously driven by the global upgrading of agricultural automation.

This report studies the global Flexible Fruit and Vegetable Picking Grippers production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Flexible Fruit and Vegetable Picking Grippers and provides market size (US\$ million) and Year-over-Year (YoY) Growth, considering 2025 as the base year. This report explores demand trends and competition, as well as details the characteristics of Flexible Fruit and Vegetable Picking Grippers that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Flexible Fruit and Vegetable Picking Grippers total production and demand, 2021-2032, (Units)

Global Flexible Fruit and Vegetable Picking Grippers total production value, 2021-2032, (USD Million)

Global Flexible Fruit and Vegetable Picking Grippers production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (Units), (based on production site)

Global Flexible Fruit and Vegetable Picking Grippers consumption by region & country, CAGR, 2021-2032 & (Units)

U.S. VS China: Flexible Fruit and Vegetable Picking Grippers domestic production, consumption, key domestic manufacturers and share

Global Flexible Fruit and Vegetable Picking Grippers production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (Units)

Global Flexible Fruit and Vegetable Picking Grippers production by Type, production, value, CAGR, 2021-2032, (USD Million) & (Units)

Global Flexible Fruit and Vegetable Picking Grippers production by Application, production, value, CAGR, 2021-2032, (USD Million) & (Units)

This report profiles key players in the global Flexible Fruit and Vegetable Picking Grippers market based on the following parameters - company overview, production, value, price, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include Suzhou RouTouch Robotics Technology Co., Ltd., DH-Robotics, Beijing Soft Robotics Technology Co., Ltd., Suzhou Botian Automation Technology Co., Ltd., Shaanxi Weijing Robotics Technology Co., Ltd., XAG Technology, Shenzhen Lanxia Robotics Co., Ltd., Festo, SMC, OnRobot, etc.

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

Stakeholders would have ease in decision-making through various strategy matrices used in analyzing the World Flexible Fruit and Vegetable Picking Grippers market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (Units) and average price (US\$/Unit) by manufacturer, by Type, and by Application. Data is given for the years 2021-2032 by year with 2025 as the base year, 2026 as the estimate year, and 2027-2032 as the forecast year.

Global Flexible Fruit and Vegetable Picking Grippers Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Flexible Fruit and Vegetable Picking Grippers Market, Segmentation by Type:

Pneumatic Flexible Gripper

Electric Flexible Gripper

Passive Adaptive Flexible Gripper

Global Flexible Fruit and Vegetable Picking Grippers Market, Segmentation by Structure and Movement Patterns:

Bionic Multi-finger Adaptive Flexible Gripper

Full-envelope Airbag Flexible Gripper

Flexible Ssuction Cup Composite Gripper

Integrated Clamping and Scissor Flexible Gripper

Global Flexible Fruit and Vegetable Picking Grippers Market, Segmentation by Control Precision and Technology Integration:

Basic Open-loop Control Type

Force-controlled Closed-loop Regulation Type

Multi-sensor Intelligent Fusion Type

Global Flexible Fruit and Vegetable Picking Grippers Market, Segmentation by Application:

Field Harvesting

Post-harvest Sorting

Scientific Research, Teaching and Technology Development

Companies Profiled:

Suzhou RouTouch Robotics Technology Co., Ltd.

DH-Robotics

Beijing Soft Robotics Technology Co., Ltd.

Suzhou Botian Automation Technology Co., Ltd.

Shaanxi Weijing Robotics Technology Co., Ltd.

XAG Technology

Shenzhen Lanxia Robotics Co., Ltd.

Festo

SMC

OnRobot

Key Questions Answered:

1. How big is the global Flexible Fruit and Vegetable Picking Grippers market?
2. What is the demand of the global Flexible Fruit and Vegetable Picking Grippers market?
3. What is the year over year growth of the global Flexible Fruit and Vegetable Picking Grippers market?
4. What is the production and production value of the global Flexible Fruit and Vegetable Picking Grippers market?
5. Who are the key producers in the global Flexible Fruit and Vegetable Picking Grippers market?
6. What are the growth factors driving the market demand?

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