

# **Automated Harvesting System Market Outlook 2025-2034: Market Share, and Growth Analysis By Components (Energy Harvesting Transducers, Power Management Integrated Circuits (PMIC), Storage Systems), By Technology (Light Energy Harvesting, Vibration Energy Harvesting, Radio Frequency Energy Harvesting, Thermal Energy Harvesting, Frequency Energy Harvesting), By Application**

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## **Abstracts**

The Automated Harvesting System Market is valued at USD 2.8 billion in 2025 and is projected to grow at a CAGR of 7.6% to reach USD 5.4 billion by 2034. The automated harvesting system market is growing due to the increasing demand for efficient and precise harvesting in agriculture. These systems automate the process of harvesting crops, improving productivity and reducing labor costs. The market encompasses a range of systems for various crops, including fruits, vegetables, and grains.

Technological advancements in robotics, computer vision, and sensor technology are enhancing the accuracy and efficiency of harvesting systems. The integration of AI and machine learning is improving crop identification and handling. The market is witnessing increased demand for customized and scalable harvesting solutions.

The competitive landscape is characterized by a mix of agricultural equipment manufacturers, robotics companies, and specialized harvesting system providers. Strategic partnerships and collaborations are crucial for developing integrated harvesting solutions. The growing focus on precision agriculture and the increasing demand for sustainable food production are driving market expansion.

## Key Insights Automated Harvesting System Market

Robotics and Automation: Increasing use of robotic systems for automated harvesting.

Computer Vision and AI: Enhancing crop identification and handling.

Sensor Technology: Improving crop monitoring and harvesting precision.

Customized and Scalable Solutions: Adapting harvesting systems to specific crops and farm sizes.

Sustainable Harvesting Practices: Reducing waste and improving resource utilization.

Labor Shortages in Agriculture: Addressing labor shortages with automated harvesting.

Increased Efficiency and Productivity: Automating harvesting to improve productivity.

Precision Agriculture: Optimizing crop yield and quality with precise harvesting.

Sustainable Food Production: Reducing waste and improving resource utilization.

Technological Advancements: Innovations in robotics and sensor technology.

High Implementation Costs: Significant upfront investments in automated harvesting systems.

Integration with Existing Farm Infrastructure: Seamlessly integrating new systems with existing farm equipment.

Handling Diverse Crop Types: Developing systems that can handle various crop types.

Operating in Outdoor Environments: Ensuring system reliability in diverse weather conditions.

Data Management and Analysis: Effectively managing and analyzing harvesting data.

## Automated Harvesting System Market Segmentation

## By Components

Energy Harvesting Transducers

Power Management Integrated Circuits (PMIC)

Storage Systems

## By Technology

Light Energy Harvesting

Vibration Energy Harvesting

Radio Frequency Energy Harvesting

Thermal Energy Harvesting

Frequency Energy Harvesting

## By Application

Horticulture

Greenhouse

Crops

Other Application Types

## Key Companies Analysed

ABB Ltd.

Honeywell International Inc.

Advanced Linear Device Inc.

e-peas SA

Analog Device Inc.

Texas Instruments Incorporated

Cymbet Corporation

EnOcean GmbH

STMicroelectronics NV

Cypress Semiconductor Corporation

Powercast Corporation

Laird Thermal Electronics Inc.

DCO Systems Ltd.

Drayson Technologies Ltd.

CNH Industrial N.V.

3A Composites India Private Limited

Robert Bosch GmbH

DeepField Robotics

Clearpath Robotics Inc.

AgEagle Aerial Systems Inc.

BouMatic Robots BV

Deere & Company

Blue River Technology Inc.

Parabellum Acquisition Corp.

Abundant Robotics Inc.

Grownetics Inc.

GlobalFoundries Inc.

AutoProbe Technologies LLC

YANMAR HOLDINGS CO. LTD.

Kubota Agricultural Machinery India Pvt. Ltd.

### Automated Harvesting System Market Analytics

The report employs rigorous tools, including Porter's Five Forces, value chain mapping, and scenario-based modeling, to assess supply–demand dynamics. Cross-sector influences from parent, derived, and substitute markets are evaluated to identify risks and opportunities. Trade and pricing analytics provide an up-to-date view of international flows, including leading exporters, importers, and regional price trends.

Macroeconomic indicators, policy frameworks such as carbon pricing and energy security strategies, and evolving consumer behavior are considered in forecasting scenarios. Recent deal flows, partnerships, and technology innovations are incorporated to assess their impact on future market performance.

### Automated Harvesting System Market Competitive Intelligence

The competitive landscape is mapped through OG Analysis' proprietary frameworks, profiling leading companies with details on business models, product portfolios, financial performance, and strategic initiatives. Key developments such as mergers & acquisitions, technology collaborations, investment inflows, and regional expansions are analyzed for their competitive impact. The report also identifies emerging players and innovative startups contributing to market disruption.

Regional insights highlight the most promising investment destinations, regulatory landscapes, and evolving partnerships across energy and industrial corridors.

## Countries Covered

North America — Automated Harvesting System market data and outlook to 2034

United States

Canada

Mexico

Europe — Automated Harvesting System market data and outlook to 2034

Germany

United Kingdom

France

Italy

Spain

BeNeLux

Russia

Sweden

Asia-Pacific — Automated Harvesting System market data and outlook to 2034

China

Japan

India

South Korea

Australia

Indonesia

Malaysia

Vietnam

Middle East and Africa — Automated Harvesting System market data and outlook to 2034

Saudi Arabia

South Africa

Iran

UAE

Egypt

South and Central America — Automated Harvesting System market data and outlook to 2034

Brazil

Argentina

Chile

Peru

*\* We can include data and analysis of additional countries on demand.*

Research Methodology

*Automated Harvesting System Market Outlook 2025-2034: Market Share, and Growth Analysis By Components (Energy...*

This study combines primary inputs from industry experts across the Automated Harvesting System value chain with secondary data from associations, government publications, trade databases, and company disclosures. Proprietary modeling techniques, including data triangulation, statistical correlation, and scenario planning, are applied to deliver reliable market sizing and forecasting.

### Key Questions Addressed

What is the current and forecast market size of the Automated Harvesting System industry at global, regional, and country levels?

Which types, applications, and technologies present the highest growth potential?

How are supply chains adapting to geopolitical and economic shocks?

What role do policy frameworks, trade flows, and sustainability targets play in shaping demand?

Who are the leading players, and how are their strategies evolving in the face of global uncertainty?

Which regional “hotspots” and customer segments will outpace the market, and what go-to-market and partnership models best support entry and expansion?

Where are the most investable opportunities—across technology roadmaps, sustainability-linked innovation, and M&A—and what is the best segment to invest over the next 3–5 years?

### Your Key Takeaways from the Automated Harvesting System Market Report

Global Automated Harvesting System market size and growth projections (CAGR), 2024-2034

Impact of Russia-Ukraine, Israel-Palestine, and Hamas conflicts on Automated Harvesting System trade, costs, and supply chains

Automated Harvesting System market size, share, and outlook across 5 regions and 27 countries, 2023-2034

Automated Harvesting System market size, CAGR, and market share of key products, applications, and end-user verticals, 2023-2034

Short- and long-term Automated Harvesting System market trends, drivers, restraints, and opportunities

Porter's Five Forces analysis, technological developments, and Automated Harvesting System supply chain analysis

Automated Harvesting System trade analysis, Automated Harvesting System market price analysis, and Automated Harvesting System supply/demand dynamics

Profiles of 5 leading companies—overview, key strategies, financials, and products

Latest Automated Harvesting System market news and developments

## Additional Support

With the purchase of this report, you will receive

An updated PDF report and an MS Excel data workbook containing all market tables and figures for easy analysis.

7-day post-sale analyst support for clarifications and in-scope supplementary data, ensuring the deliverable aligns precisely with your requirements.

Complimentary report update to incorporate the latest available data and the impact of recent market developments.

*\* The updated report will be delivered within 3 working days*

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