

Global Farming Solar Powered Robot Market Growth 2026-2032

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Abstracts

The global Farming Solar Powered Robot market size is predicted to grow from US\$ 72.00 million in 2025 to US\$ 228 million in 2032; it is expected to grow at a CAGR of 17.9% from 2026 to 2032.

In 2025, global Farming Solar Powered Robot reached approximately 892 units, with an average global market price of around 82,500 USD/unit.

Farming Solar Powered Robot refers to an intelligent agricultural equipment that integrates solar power generation technology, autonomous navigation, and agricultural operation modules. It relies on solar panels to convert clean energy into electrical power for its own operation, and is equipped with sensors and intelligent control systems to independently or semi-independently complete agricultural tasks such as sowing, fertilization, irrigation, pest control, and crop status monitoring. As a core tool for smart and sustainable agriculture, it is characterized by low energy consumption, environmental friendliness, and reduced labor dependence, and is especially suitable for application scenarios such as remote rural areas and large-scale farms lacking stable power supply.

The demand for Farming Solar Powered Robots is mainly driven by the global labor shortage in the agricultural sector, the urgent need to improve production efficiency, the promotion of sustainable agriculture policies, and the popularity of precision farming concepts. The difficulty in accessing power in remote rural areas and the growing demand for energy-saving solutions in agricultural irrigation systems further amplify market demand. Business opportunities lie in developing low-cost and user-friendly products to meet the needs of small and medium-sized farmers; integrating advanced technologies such as AI and IoT to enhance autonomous operation accuracy and data

analysis capabilities; expanding application scenarios in special agricultural fields such as facility farming and animal husbandry; exploring the "robot-as-a-service" business model to reduce farmers' initial investment; and leveraging policy support to promote localized production and popularization, while exploring emerging markets with strong demand for agricultural modernization.

LP Information, Inc. (LPI) ' newest research report, the "Farming Solar Powered Robot Industry Forecast" looks at past sales and reviews total world Farming Solar Powered Robot sales in 2025, providing a comprehensive analysis by region and market sector of projected Farming Solar Powered Robot sales for 2026 through 2032. With Farming Solar Powered Robot sales broken down by region, market sector and sub-sector, this report provides a detailed analysis in US\$ millions of the world Farming Solar Powered Robot industry.

This Insight Report provides a comprehensive analysis of the global Farming Solar Powered Robot landscape and highlights key trends related to product segmentation, company formation, revenue, and market share, latest development, and M&A activity. This report also analyzes the strategies of leading global companies with a focus on Farming Solar Powered Robot portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms' unique position in an accelerating global Farming Solar Powered Robot market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for Farming Solar Powered Robot and breaks down the forecast by Core Operation Function, by Application, geography, and market size to highlight emerging pockets of opportunity. With a transparent methodology based on hundreds of bottom-up qualitative and quantitative market inputs, this study forecast offers a highly nuanced view of the current state and future trajectory in the global Farming Solar Powered Robot.

This report presents a comprehensive overview, market shares, and growth opportunities of Farming Solar Powered Robot market by product type, application, key manufacturers and key regions and countries.

Segmentation by Core Operation Function:

Solar-Powered Sowing Robots

Solar-Powered Weeding Robots

Solar-Powered Pest Control Robots

Solar-Powered Crop Monitoring Robots

Solar-Powered Harvesting Robots

Segmentation by Movement Mode:

Wheeled Farming Solar Powered Robots

Tracked Farming Solar Powered Robots

Aerial Farming Solar Powered Robots

Legged Farming Solar Powered Robots

Segmentation by Intelligence Level:

Fully Autonomous Farming Solar Powered Robots

Semi-Autonomous Farming Solar Powered Robots

Segmentation by Application:

Field Farming Application

Protected Agriculture Application (Greenhouses)

Orchard Farming Application

Aquaculture Auxiliary Application

This report also splits the market by region:

Americas

United States

Canada

Mexico

Brazil

APAC

China

Japan

Korea

Southeast Asia

India

Australia

Europe

Germany

France

UK

Italy

Russia

Middle East & Africa

Egypt

South Africa

Israel

Turkey

GCC Countries

The below companies that are profiled have been selected based on inputs gathered from primary experts and analysing the company's coverage, product portfolio, its market penetration.

FarmDroid

Aigen

Solinftec

ARVAtec

Vitirover

Directed Machines

Pixelfarming

Earth Rover

Ecorobotix

Key Questions Addressed in this Report

What is the 10-year outlook for the global Farming Solar Powered Robot market?

What factors are driving Farming Solar Powered Robot market growth, globally and by region?

Which technologies are poised for the fastest growth by market and region?

How do Farming Solar Powered Robot market opportunities vary by end market size?

How does Farming Solar Powered Robot break out by Core Operation Function, by Application?

Contents

1 SCOPE OF THE REPORT

- 1.1 Market Introduction
- 1.2 Years Considered
- 1.3 Research Objectives
- 1.4 Market Research Methodology
- 1.5 Research Process and Data Source
- 1.6 Economic Indicators
- 1.7 Currency Considered
- 1.8 Market Estimation Caveats

2 EXECUTIVE SUMMARY

2.1 World Market Overview

- 2.1.1 Global Farming Solar Powered Robot Annual Sales 2021-2032
- 2.1.2 World Current & Future Analysis for Farming Solar Powered Robot by Geographic Region, 2021, 2025 & 2032
- 2.1.3 World Current & Future Analysis for Farming Solar Powered Robot by Country/Region, 2021, 2025 & 2032
- 2.2 Farming Solar Powered Robot Segment by Core Operation Function
 - 2.2.1 Solar-Powered Sowing Robots
 - 2.2.2 Solar-Powered Weeding Robots
 - 2.2.3 Solar-Powered Pest Control Robots
 - 2.2.4 Solar-Powered Crop Monitoring Robots
 - 2.2.5 Solar-Powered Harvesting Robots
 - 2.2.6 Farming Solar Powered Robot Sales by Core Operation Function
 - 2.2.6.1 Global Farming Solar Powered Robot Sales Market Share by Core Operation Function (2021-2026)
 - 2.2.6.2 Global Farming Solar Powered Robot Revenue and Market Share by Core Operation Function (2021-2026)
 - 2.2.6.3 Global Farming Solar Powered Robot Sale Price by Core Operation Function (2021-2026)

2.3 Farming Solar Powered Robot Segment by Movement Mode

- 2.3.1 Wheeled Farming Solar Powered Robots
- 2.3.2 Tracked Farming Solar Powered Robots
- 2.3.3 Aerial Farming Solar Powered Robots
- 2.3.4 Legged Farming Solar Powered Robots

2.3.5 Farming Solar Powered Robot Sales by Movement Mode

2.3.5.1 Global Farming Solar Powered Robot Sales Market Share by Movement Mode (2021-2026)

2.3.5.2 Global Farming Solar Powered Robot Revenue and Market Share by Movement Mode (2021-2026)

2.3.5.3 Global Farming Solar Powered Robot Sale Price by Movement Mode (2021-2026)

2.4 Farming Solar Powered Robot Segment by Intelligence Level

2.4.1 Fully Autonomous Farming Solar Powered Robots

2.4.2 Semi-Autonomous Farming Solar Powered Robots

2.4.3 Farming Solar Powered Robot Sales by Intelligence Level

2.4.3.1 Global Farming Solar Powered Robot Sales Market Share by Intelligence Level (2021-2026)

2.4.3.2 Global Farming Solar Powered Robot Revenue and Market Share by Intelligence Level (2021-2026)

2.4.3.3 Global Farming Solar Powered Robot Sale Price by Intelligence Level (2021-2026)

2.5 Farming Solar Powered Robot Segment by Application

2.5.1 Field Farming Application

2.5.2 Protected Agriculture Application (Greenhouses)

2.5.3 Orchard Farming Application

2.5.4 Aquaculture Auxiliary Application

2.5.5 Farming Solar Powered Robot Sales by Application

2.5.5.1 Global Farming Solar Powered Robot Sale Market Share by Application (2021-2026)

2.5.5.2 Global Farming Solar Powered Robot Revenue and Market Share by Application (2021-2026)

2.5.5.3 Global Farming Solar Powered Robot Sale Price by Application (2021-2026)

3 GLOBAL BY COMPANY

3.1 Global Farming Solar Powered Robot Breakdown Data by Company

3.1.1 Global Farming Solar Powered Robot Annual Sales by Company (2021-2026)

3.1.2 Global Farming Solar Powered Robot Sales Market Share by Company (2021-2026)

3.2 Global Farming Solar Powered Robot Annual Revenue by Company (2021-2026)

3.2.1 Global Farming Solar Powered Robot Revenue by Company (2021-2026)

3.2.2 Global Farming Solar Powered Robot Revenue Market Share by Company (2021-2026)

- 3.3 Global Farming Solar Powered Robot Sale Price by Company
- 3.4 Key Manufacturers Farming Solar Powered Robot Producing Area Distribution, Sales Area, Product Type
 - 3.4.1 Key Manufacturers Farming Solar Powered Robot Product Location Distribution
 - 3.4.2 Players Farming Solar Powered Robot Products Offered
- 3.5 Market Concentration Rate Analysis
 - 3.5.1 Competition Landscape Analysis
 - 3.5.2 Concentration Ratio (CR3, CR5 and CR10) & (2024-2026)
- 3.6 New Products and Potential Entrants
- 3.7 Market M&A Activity & Strategy

4 WORLD HISTORIC REVIEW FOR FARMING SOLAR POWERED ROBOT BY GEOGRAPHIC REGION

- 4.1 World Historic Farming Solar Powered Robot Market Size by Geographic Region (2021-2026)
 - 4.1.1 Global Farming Solar Powered Robot Annual Sales by Geographic Region (2021-2026)
 - 4.1.2 Global Farming Solar Powered Robot Annual Revenue by Geographic Region (2021-2026)
- 4.2 World Historic Farming Solar Powered Robot Market Size by Country/Region (2021-2026)
 - 4.2.1 Global Farming Solar Powered Robot Annual Sales by Country/Region (2021-2026)
 - 4.2.2 Global Farming Solar Powered Robot Annual Revenue by Country/Region (2021-2026)
- 4.3 Americas Farming Solar Powered Robot Sales Growth
- 4.4 APAC Farming Solar Powered Robot Sales Growth
- 4.5 Europe Farming Solar Powered Robot Sales Growth
- 4.6 Middle East & Africa Farming Solar Powered Robot Sales Growth

5 AMERICAS

- 5.1 Americas Farming Solar Powered Robot Sales by Country
 - 5.1.1 Americas Farming Solar Powered Robot Sales by Country (2021-2026)
 - 5.1.2 Americas Farming Solar Powered Robot Revenue by Country (2021-2026)
- 5.2 Americas Farming Solar Powered Robot Sales by Core Operation Function (2021-2026)
- 5.3 Americas Farming Solar Powered Robot Sales by Application (2021-2026)

5.4 United States

5.5 Canada

5.6 Mexico

5.7 Brazil

6 APAC

6.1 APAC Farming Solar Powered Robot Sales by Region

6.1.1 APAC Farming Solar Powered Robot Sales by Region (2021-2026)

6.1.2 APAC Farming Solar Powered Robot Revenue by Region (2021-2026)

6.2 APAC Farming Solar Powered Robot Sales by Core Operation Function (2021-2026)

6.3 APAC Farming Solar Powered Robot Sales by Application (2021-2026)

6.4 China

6.5 Japan

6.6 South Korea

6.7 Southeast Asia

6.8 India

6.9 Australia

6.10 China Taiwan

7 EUROPE

7.1 Europe Farming Solar Powered Robot by Country

7.1.1 Europe Farming Solar Powered Robot Sales by Country (2021-2026)

7.1.2 Europe Farming Solar Powered Robot Revenue by Country (2021-2026)

7.2 Europe Farming Solar Powered Robot Sales by Core Operation Function (2021-2026)

7.3 Europe Farming Solar Powered Robot Sales by Application (2021-2026)

7.4 Germany

7.5 France

7.6 UK

7.7 Italy

7.8 Russia

8 MIDDLE EAST & AFRICA

8.1 Middle East & Africa Farming Solar Powered Robot by Country

8.1.1 Middle East & Africa Farming Solar Powered Robot Sales by Country

(2021-2026)

8.1.2 Middle East & Africa Farming Solar Powered Robot Revenue by Country

(2021-2026)

8.2 Middle East & Africa Farming Solar Powered Robot Sales by Core Operation Function (2021-2026)

8.3 Middle East & Africa Farming Solar Powered Robot Sales by Application (2021-2026)

8.4 Egypt

8.5 South Africa

8.6 Israel

8.7 Turkey

8.8 GCC Countries

9 MARKET DRIVERS, CHALLENGES AND TRENDS

9.1 Market Drivers & Growth Opportunities

9.2 Market Challenges & Risks

9.3 Industry Trends

10 MANUFACTURING COST STRUCTURE ANALYSIS

10.1 Raw Material and Suppliers

10.2 Manufacturing Cost Structure Analysis of Farming Solar Powered Robot

10.3 Manufacturing Process Analysis of Farming Solar Powered Robot

10.4 Industry Chain Structure of Farming Solar Powered Robot

11 MARKETING, DISTRIBUTORS AND CUSTOMER

11.1 Sales Channel

11.1.1 Direct Channels

11.1.2 Indirect Channels

11.2 Farming Solar Powered Robot Distributors

11.3 Farming Solar Powered Robot Customer

12 WORLD FORECAST REVIEW FOR FARMING SOLAR POWERED ROBOT BY GEOGRAPHIC REGION

12.1 Global Farming Solar Powered Robot Market Size Forecast by Region

12.1.1 Global Farming Solar Powered Robot Forecast by Region (2027-2032)

12.1.2 Global Farming Solar Powered Robot Annual Revenue Forecast by Region (2027-2032)

12.2 Americas Forecast by Country (2027-2032)

12.3 APAC Forecast by Region (2027-2032)

12.4 Europe Forecast by Country (2027-2032)

12.5 Middle East & Africa Forecast by Country (2027-2032)

12.6 Global Farming Solar Powered Robot Forecast by Core Operation Function (2027-2032)

12.7 Global Farming Solar Powered Robot Forecast by Application (2027-2032)

13 KEY PLAYERS ANALYSIS

13.1 FarmDroid

13.1.1 FarmDroid Company Information

13.1.2 FarmDroid Farming Solar Powered Robot Product Portfolios and Specifications

13.1.3 FarmDroid Farming Solar Powered Robot Sales, Revenue, Price and Gross Margin (2021-2026)

13.1.4 FarmDroid Main Business Overview

13.1.5 FarmDroid Latest Developments

13.2 Aigen

13.2.1 Aigen Company Information

13.2.2 Aigen Farming Solar Powered Robot Product Portfolios and Specifications

13.2.3 Aigen Farming Solar Powered Robot Sales, Revenue, Price and Gross Margin (2021-2026)

13.2.4 Aigen Main Business Overview

13.2.5 Aigen Latest Developments

13.3 Solinftec

13.3.1 Solinftec Company Information

13.3.2 Solinftec Farming Solar Powered Robot Product Portfolios and Specifications

13.3.3 Solinftec Farming Solar Powered Robot Sales, Revenue, Price and Gross Margin (2021-2026)

13.3.4 Solinftec Main Business Overview

13.3.5 Solinftec Latest Developments

13.4 ARVAtec

13.4.1 ARVAtec Company Information

13.4.2 ARVAtec Farming Solar Powered Robot Product Portfolios and Specifications

13.4.3 ARVAtec Farming Solar Powered Robot Sales, Revenue, Price and Gross Margin (2021-2026)

13.4.4 ARVAtec Main Business Overview

13.4.5 ARVAtec Latest Developments

13.5 Vitirover

13.5.1 Vitirover Company Information

13.5.2 Vitirover Farming Solar Powered Robot Product Portfolios and Specifications

13.5.3 Vitirover Farming Solar Powered Robot Sales, Revenue, Price and Gross

Margin (2021-2026)

13.5.4 Vitirover Main Business Overview

13.5.5 Vitirover Latest Developments

13.6 Directed Machines

13.6.1 Directed Machines Company Information

13.6.2 Directed Machines Farming Solar Powered Robot Product Portfolios and Specifications

13.6.3 Directed Machines Farming Solar Powered Robot Sales, Revenue, Price and Gross Margin (2021-2026)

13.6.4 Directed Machines Main Business Overview

13.6.5 Directed Machines Latest Developments

13.7 Pixelfarming

13.7.1 Pixelfarming Company Information

13.7.2 Pixelfarming Farming Solar Powered Robot Product Portfolios and Specifications

13.7.3 Pixelfarming Farming Solar Powered Robot Sales, Revenue, Price and Gross Margin (2021-2026)

13.7.4 Pixelfarming Main Business Overview

13.7.5 Pixelfarming Latest Developments

13.8 Earth Rover

13.8.1 Earth Rover Company Information

13.8.2 Earth Rover Farming Solar Powered Robot Product Portfolios and Specifications

13.8.3 Earth Rover Farming Solar Powered Robot Sales, Revenue, Price and Gross Margin (2021-2026)

13.8.4 Earth Rover Main Business Overview

13.8.5 Earth Rover Latest Developments

13.9 Ecorobotix

13.9.1 Ecorobotix Company Information

13.9.2 Ecorobotix Farming Solar Powered Robot Product Portfolios and Specifications

13.9.3 Ecorobotix Farming Solar Powered Robot Sales, Revenue, Price and Gross Margin (2021-2026)

13.9.4 Ecorobotix Main Business Overview

13.9.5 Ecorobotix Latest Developments

14 RESEARCH FINDINGS AND CONCLUSION

List Of Tables

LIST OF TABLES

Table 1. Farming Solar Powered Robot Annual Sales CAGR by Geographic Region (2021, 2025 & 2032) & (\$ millions)

Table 2. Farming Solar Powered Robot Annual Sales CAGR by Country/Region (2021, 2025 & 2032) & (\$ millions)

Table 3. Major Players of Solar-Powered Sowing Robots

Table 4. Major Players of Solar-Powered Weeding Robots

Table 5. Major Players of Solar-Powered Pest Control Robots

Table 6. Major Players of Solar-Powered Crop Monitoring Robots

Table 7. Major Players of Solar-Powered Harvesting Robots

Table 8. Global Farming Solar Powered Robot Sales by Core Operation Function (2021-2026) & (Units)

Table 9. Global Farming Solar Powered Robot Sales Market Share by Core Operation Function (2021-2026)

Table 10. Global Farming Solar Powered Robot Revenue by Core Operation Function (2021-2026) & (\$ million)

Table 11. Global Farming Solar Powered Robot Revenue Market Share by Core Operation Function (2021-2026)

Table 12. Global Farming Solar Powered Robot Sale Price by Core Operation Function (2021-2026) & (US\$/Unit)

Table 13. Major Players of Wheeled Farming Solar Powered Robots

Table 14. Major Players of Tracked Farming Solar Powered Robots

Table 15. Major Players of Aerial Farming Solar Powered Robots

Table 16. Major Players of Legged Farming Solar Powered Robots

Table 17. Global Farming Solar Powered Robot Sales by Movement Mode (2021-2026) & (Units)

Table 18. Global Farming Solar Powered Robot Sales Market Share by Movement Mode (2021-2026)

Table 19. Global Farming Solar Powered Robot Revenue by Movement Mode (2021-2026) & (\$ million)

Table 20. Global Farming Solar Powered Robot Revenue Market Share by Movement Mode (2021-2026)

Table 21. Global Farming Solar Powered Robot Sale Price by Movement Mode (2021-2026) & (US\$/Unit)

Table 22. Major Players of Fully Autonomous Farming Solar Powered Robots

Table 23. Major Players of Semi-Autonomous Farming Solar Powered Robots

Table 24. Global Farming Solar Powered Robot Sales by Intelligence Level (2021-2026) & (Units)

Table 25. Global Farming Solar Powered Robot Sales Market Share by Intelligence Level (2021-2026)

Table 26. Global Farming Solar Powered Robot Revenue by Intelligence Level (2021-2026) & (\$ million)

Table 27. Global Farming Solar Powered Robot Revenue Market Share by Intelligence Level (2021-2026)

Table 28. Global Farming Solar Powered Robot Sale Price by Intelligence Level (2021-2026) & (US\$/Unit)

Table 29. Global Farming Solar Powered Robot Sale by Application (2021-2026) & (Units)

Table 30. Global Farming Solar Powered Robot Sale Market Share by Application (2021-2026)

Table 31. Global Farming Solar Powered Robot Revenue by Application (2021-2026) & (\$ million)

Table 32. Global Farming Solar Powered Robot Revenue Market Share by Application (2021-2026)

Table 33. Global Farming Solar Powered Robot Sale Price by Application (2021-2026) & (US\$/Unit)

Table 34. Global Farming Solar Powered Robot Sales by Company (2021-2026) & (Units)

Table 35. Global Farming Solar Powered Robot Sales Market Share by Company (2021-2026)

Table 36. Global Farming Solar Powered Robot Revenue by Company (2021-2026) & (\$ millions)

Table 37. Global Farming Solar Powered Robot Revenue Market Share by Company (2021-2026)

Table 38. Global Farming Solar Powered Robot Sale Price by Company (2021-2026) & (US\$/Unit)

Table 39. Key Manufacturers Farming Solar Powered Robot Producing Area Distribution and Sales Area

Table 40. Players Farming Solar Powered Robot Products Offered

Table 41. Farming Solar Powered Robot Concentration Ratio (CR3, CR5 and CR10) & (2024-2026)

Table 42. New Products and Potential Entrants

Table 43. Market M&A Activity & Strategy

Table 44. Global Farming Solar Powered Robot Sales by Geographic Region (2021-2026) & (Units)

Table 45. Global Farming Solar Powered Robot Sales Market Share Geographic Region (2021-2026)

Table 46. Global Farming Solar Powered Robot Revenue by Geographic Region (2021-2026) & (\$ millions)

Table 47. Global Farming Solar Powered Robot Revenue Market Share by Geographic Region (2021-2026)

Table 48. Global Farming Solar Powered Robot Sales by Country/Region (2021-2026) & (Units)

Table 49. Global Farming Solar Powered Robot Sales Market Share by Country/Region (2021-2026)

Table 50. Global Farming Solar Powered Robot Revenue by Country/Region (2021-2026) & (\$ millions)

Table 51. Global Farming Solar Powered Robot Revenue Market Share by Country/Region (2021-2026)

Table 52. Americas Farming Solar Powered Robot Sales by Country (2021-2026) & (Units)

Table 53. Americas Farming Solar Powered Robot Sales Market Share by Country (2021-2026)

Table 54. Americas Farming Solar Powered Robot Revenue by Country (2021-2026) & (\$ millions)

Table 55. Americas Farming Solar Powered Robot Sales by Core Operation Function (2021-2026) & (Units)

Table 56. Americas Farming Solar Powered Robot Sales by Application (2021-2026) & (Units)

Table 57. APAC Farming Solar Powered Robot Sales by Region (2021-2026) & (Units)

Table 58. APAC Farming Solar Powered Robot Sales Market Share by Region (2021-2026)

Table 59. APAC Farming Solar Powered Robot Revenue by Region (2021-2026) & (\$ millions)

Table 60. APAC Farming Solar Powered Robot Sales by Core Operation Function (2021-2026) & (Units)

Table 61. APAC Farming Solar Powered Robot Sales by Application (2021-2026) & (Units)

Table 62. Europe Farming Solar Powered Robot Sales by Country (2021-2026) & (Units)

Table 63. Europe Farming Solar Powered Robot Revenue by Country (2021-2026) & (\$ millions)

Table 64. Europe Farming Solar Powered Robot Sales by Core Operation Function (2021-2026) & (Units)

Table 65. Europe Farming Solar Powered Robot Sales by Application (2021-2026) & (Units)

Table 66. Middle East & Africa Farming Solar Powered Robot Sales by Country (2021-2026) & (Units)

Table 67. Middle East & Africa Farming Solar Powered Robot Revenue Market Share by Country (2021-2026)

Table 68. Middle East & Africa Farming Solar Powered Robot Sales by Core Operation Function (2021-2026) & (Units)

Table 69. Middle East & Africa Farming Solar Powered Robot Sales by Application (2021-2026) & (Units)

Table 70. Key Market Drivers & Growth Opportunities of Farming Solar Powered Robot

Table 71. Key Market Challenges & Risks of Farming Solar Powered Robot

Table 72. Key Industry Trends of Farming Solar Powered Robot

Table 73. Farming Solar Powered Robot Raw Material

Table 74. Key Suppliers of Raw Materials

Table 75. Farming Solar Powered Robot Distributors List

Table 76. Farming Solar Powered Robot Customer List

Table 77. Global Farming Solar Powered Robot Sales Forecast by Region (2027-2032) & (Units)

Table 78. Global Farming Solar Powered Robot Revenue Forecast by Region (2027-2032) & (\$ millions)

Table 79. Americas Farming Solar Powered Robot Sales Forecast by Country (2027-2032) & (Units)

Table 80. Americas Farming Solar Powered Robot Annual Revenue Forecast by Country (2027-2032) & (\$ millions)

Table 81. APAC Farming Solar Powered Robot Sales Forecast by Region (2027-2032) & (Units)

Table 82. APAC Farming Solar Powered Robot Annual Revenue Forecast by Region (2027-2032) & (\$ millions)

Table 83. Europe Farming Solar Powered Robot Sales Forecast by Country (2027-2032) & (Units)

Table 84. Europe Farming Solar Powered Robot Revenue Forecast by Country (2027-2032) & (\$ millions)

Table 85. Middle East & Africa Farming Solar Powered Robot Sales Forecast by Country (2027-2032) & (Units)

Table 86. Middle East & Africa Farming Solar Powered Robot Revenue Forecast by Country (2027-2032) & (\$ millions)

Table 87. Global Farming Solar Powered Robot Sales Forecast by Core Operation Function (2027-2032) & (Units)

Table 88. Global Farming Solar Powered Robot Revenue Forecast by Core Operation Function (2027-2032) & (\$ millions)

Table 89. Global Farming Solar Powered Robot Sales Forecast by Application (2027-2032) & (Units)

Table 90. Global Farming Solar Powered Robot Revenue Forecast by Application (2027-2032) & (\$ millions)

Table 91. FarmDroid Basic Information, Farming Solar Powered Robot Manufacturing Base, Sales Area and Its Competitors

Table 92. FarmDroid Farming Solar Powered Robot Product Portfolios and Specifications

Table 93. FarmDroid Farming Solar Powered Robot Sales (Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 94. FarmDroid Main Business

Table 95. FarmDroid Latest Developments

Table 96. Aigen Basic Information, Farming Solar Powered Robot Manufacturing Base, Sales Area and Its Competitors

Table 97. Aigen Farming Solar Powered Robot Product Portfolios and Specifications

Table 98. Aigen Farming Solar Powered Robot Sales (Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 99. Aigen Main Business

Table 100. Aigen Latest Developments

Table 101. Solinftec Basic Information, Farming Solar Powered Robot Manufacturing Base, Sales Area and Its Competitors

Table 102. Solinftec Farming Solar Powered Robot Product Portfolios and Specifications

Table 103. Solinftec Farming Solar Powered Robot Sales (Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 104. Solinftec Main Business

Table 105. Solinftec Latest Developments

Table 106. ARVAttec Basic Information, Farming Solar Powered Robot Manufacturing Base, Sales Area and Its Competitors

Table 107. ARVAttec Farming Solar Powered Robot Product Portfolios and Specifications

Table 108. ARVAttec Farming Solar Powered Robot Sales (Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 109. ARVAttec Main Business

Table 110. ARVAttec Latest Developments

Table 111. Vitirover Basic Information, Farming Solar Powered Robot Manufacturing Base, Sales Area and Its Competitors

Table 112. Vitirover Farming Solar Powered Robot Product Portfolios and Specifications

Table 113. Vitirover Farming Solar Powered Robot Sales (Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 114. Vitirover Main Business

Table 115. Vitirover Latest Developments

Table 116. Directed Machines Basic Information, Farming Solar Powered Robot Manufacturing Base, Sales Area and Its Competitors

Table 117. Directed Machines Farming Solar Powered Robot Product Portfolios and Specifications

Table 118. Directed Machines Farming Solar Powered Robot Sales (Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 119. Directed Machines Main Business

Table 120. Directed Machines Latest Developments

Table 121. Pixelfarming Basic Information, Farming Solar Powered Robot Manufacturing Base, Sales Area and Its Competitors

Table 122. Pixelfarming Farming Solar Powered Robot Product Portfolios and Specifications

Table 123. Pixelfarming Farming Solar Powered Robot Sales (Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 124. Pixelfarming Main Business

Table 125. Pixelfarming Latest Developments

Table 126. Earth Rover Basic Information, Farming Solar Powered Robot Manufacturing Base, Sales Area and Its Competitors

Table 127. Earth Rover Farming Solar Powered Robot Product Portfolios and Specifications

Table 128. Earth Rover Farming Solar Powered Robot Sales (Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 129. Earth Rover Main Business

Table 130. Earth Rover Latest Developments

Table 131. Ecorobotix Basic Information, Farming Solar Powered Robot Manufacturing Base, Sales Area and Its Competitors

Table 132. Ecorobotix Farming Solar Powered Robot Product Portfolios and Specifications

Table 133. Ecorobotix Farming Solar Powered Robot Sales (Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 134. Ecorobotix Main Business

Table 135. Ecorobotix Latest Developments

List Of Figures

LIST OF FIGURES

- Figure 1. Picture of Farming Solar Powered Robot
- Figure 2. Farming Solar Powered Robot Report Years Considered
- Figure 3. Research Objectives
- Figure 4. Research Methodology
- Figure 5. Research Process and Data Source
- Figure 6. Global Farming Solar Powered Robot Sales Growth Rate 2021-2032 (Units)
- Figure 7. Global Farming Solar Powered Robot Revenue Growth Rate 2021-2032 (\$ millions)
- Figure 8. Farming Solar Powered Robot Sales by Geographic Region (2021, 2025 & 2032) & (\$ millions)
- Figure 9. Farming Solar Powered Robot Sales Market Share by Country/Region (2025)
- Figure 10. Farming Solar Powered Robot Sales Market Share by Country/Region (2021, 2025 & 2032)
- Figure 11. Product Picture of Solar-Powered Sowing Robots
- Figure 12. Product Picture of Solar-Powered Weeding Robots
- Figure 13. Product Picture of Solar-Powered Pest Control Robots
- Figure 14. Product Picture of Solar-Powered Crop Monitoring Robots
- Figure 15. Product Picture of Solar-Powered Harvesting Robots
- Figure 16. Global Farming Solar Powered Robot Sales Market Share by Core Operation Function in 2026
- Figure 17. Global Farming Solar Powered Robot Revenue Market Share by Core Operation Function (2021-2026)
- Figure 18. Product Picture of Wheeled Farming Solar Powered Robots
- Figure 19. Product Picture of Tracked Farming Solar Powered Robots
- Figure 20. Product Picture of Aerial Farming Solar Powered Robots
- Figure 21. Product Picture of Legged Farming Solar Powered Robots
- Figure 22. Global Farming Solar Powered Robot Sales Market Share by Movement Mode in 2026
- Figure 23. Global Farming Solar Powered Robot Revenue Market Share by Movement Mode (2021-2026)
- Figure 24. Product Picture of Fully Autonomous Farming Solar Powered Robots
- Figure 25. Product Picture of Semi-Autonomous Farming Solar Powered Robots
- Figure 26. Global Farming Solar Powered Robot Sales Market Share by Intelligence Level in 2026
- Figure 27. Global Farming Solar Powered Robot Revenue Market Share by Intelligence

Level (2021-2026)

Figure 28. Farming Solar Powered Robot Consumed in Field Farming Application

Figure 29. Global Farming Solar Powered Robot Market: Field Farming Application (2021-2026) & (Units)

Figure 30. Farming Solar Powered Robot Consumed in Protected Agriculture Application (Greenhouses)

Figure 31. Global Farming Solar Powered Robot Market: Protected Agriculture Application (Greenhouses) (2021-2026) & (Units)

Figure 32. Farming Solar Powered Robot Consumed in Orchard Farming Application

Figure 33. Global Farming Solar Powered Robot Market: Orchard Farming Application (2021-2026) & (Units)

Figure 34. Farming Solar Powered Robot Consumed in Aquaculture Auxiliary Application

Figure 35. Global Farming Solar Powered Robot Market: Aquaculture Auxiliary Application (2021-2026) & (Units)

Figure 36. Global Farming Solar Powered Robot Sale Market Share by Application (2025)

Figure 37. Global Farming Solar Powered Robot Revenue Market Share by Application in 2026

Figure 38. Farming Solar Powered Robot Sales by Company in 2026 (Units)

Figure 39. Global Farming Solar Powered Robot Sales Market Share by Company in 2026

Figure 40. Farming Solar Powered Robot Revenue by Company in 2026 (\$ millions)

Figure 41. Global Farming Solar Powered Robot Revenue Market Share by Company in 2026

Figure 42. Global Farming Solar Powered Robot Sales Market Share by Geographic Region (2021-2026)

Figure 43. Global Farming Solar Powered Robot Revenue Market Share by Geographic Region in 2026

Figure 44. Americas Farming Solar Powered Robot Sales 2021-2026 (Units)

Figure 45. Americas Farming Solar Powered Robot Revenue 2021-2026 (\$ millions)

Figure 46. APAC Farming Solar Powered Robot Sales 2021-2026 (Units)

Figure 47. APAC Farming Solar Powered Robot Revenue 2021-2026 (\$ millions)

Figure 48. Europe Farming Solar Powered Robot Sales 2021-2026 (Units)

Figure 49. Europe Farming Solar Powered Robot Revenue 2021-2026 (\$ millions)

Figure 50. Middle East & Africa Farming Solar Powered Robot Sales 2021-2026 (Units)

Figure 51. Middle East & Africa Farming Solar Powered Robot Revenue 2021-2026 (\$ millions)

Figure 52. Americas Farming Solar Powered Robot Sales Market Share by Country in

2026

Figure 53. Americas Farming Solar Powered Robot Revenue Market Share by Country (2021-2026)

Figure 54. Americas Farming Solar Powered Robot Sales Market Share by Core Operation Function (2021-2026)

Figure 55. Americas Farming Solar Powered Robot Sales Market Share by Application (2021-2026)

Figure 56. United States Farming Solar Powered Robot Revenue Growth 2021-2026 (\$ millions)

Figure 57. Canada Farming Solar Powered Robot Revenue Growth 2021-2026 (\$ millions)

Figure 58. Mexico Farming Solar Powered Robot Revenue Growth 2021-2026 (\$ millions)

Figure 59. Brazil Farming Solar Powered Robot Revenue Growth 2021-2026 (\$ millions)

Figure 60. APAC Farming Solar Powered Robot Sales Market Share by Region in 2026

Figure 61. APAC Farming Solar Powered Robot Revenue Market Share by Region (2021-2026)

Figure 62. APAC Farming Solar Powered Robot Sales Market Share by Core Operation Function (2021-2026)

Figure 63. APAC Farming Solar Powered Robot Sales Market Share by Application (2021-2026)

Figure 64. China Farming Solar Powered Robot Revenue Growth 2021-2026 (\$ millions)

Figure 65. Japan Farming Solar Powered Robot Revenue Growth 2021-2026 (\$ millions)

Figure 66. South Korea Farming Solar Powered Robot Revenue Growth 2021-2026 (\$ millions)

Figure 67. Southeast Asia Farming Solar Powered Robot Revenue Growth 2021-2026 (\$ millions)

Figure 68. India Farming Solar Powered Robot Revenue Growth 2021-2026 (\$ millions)

Figure 69. Australia Farming Solar Powered Robot Revenue Growth 2021-2026 (\$ millions)

Figure 70. China Taiwan Farming Solar Powered Robot Revenue Growth 2021-2026 (\$ millions)

Figure 71. Europe Farming Solar Powered Robot Sales Market Share by Country in 2026

Figure 72. Europe Farming Solar Powered Robot Revenue Market Share by Country (2021-2026)

Figure 73. Europe Farming Solar Powered Robot Sales Market Share by Core

Operation Function (2021-2026)

Figure 74. Europe Farming Solar Powered Robot Sales Market Share by Application (2021-2026)

Figure 75. Germany Farming Solar Powered Robot Revenue Growth 2021-2026 (\$ millions)

Figure 76. France Farming Solar Powered Robot Revenue Growth 2021-2026 (\$ millions)

Figure 77. UK Farming Solar Powered Robot Revenue Growth 2021-2026 (\$ millions)

Figure 78. Italy Farming Solar Powered Robot Revenue Growth 2021-2026 (\$ millions)

Figure 79. Russia Farming Solar Powered Robot Revenue Growth 2021-2026 (\$ millions)

Figure 80. Middle East & Africa Farming Solar Powered Robot Sales Market Share by Country (2021-2026)

Figure 81. Middle East & Africa Farming Solar Powered Robot Sales Market Share by Core Operation Function (2021-2026)

Figure 82. Middle East & Africa Farming Solar Powered Robot Sales Market Share by Application (2021-2026)

Figure 83. Egypt Farming Solar Powered Robot Revenue Growth 2021-2026 (\$ millions)

Figure 84. South Africa Farming Solar Powered Robot Revenue Growth 2021-2026 (\$ millions)

Figure 85. Israel Farming Solar Powered Robot Revenue Growth 2021-2026 (\$ millions)

Figure 86. Turkey Farming Solar Powered Robot Revenue Growth 2021-2026 (\$ millions)

Figure 87. GCC Countries Farming Solar Powered Robot Revenue Growth 2021-2026 (\$ millions)

Figure 88. Manufacturing Cost Structure Analysis of Farming Solar Powered Robot in 2026

Figure 89. Manufacturing Process Analysis of Farming Solar Powered Robot

Figure 90. Industry Chain Structure of Farming Solar Powered Robot

Figure 91. Channels of Distribution

Figure 92. Global Farming Solar Powered Robot Sales Market Forecast by Region (2027-2032)

Figure 93. Global Farming Solar Powered Robot Revenue Market Share Forecast by Region (2027-2032)

Figure 94. Global Farming Solar Powered Robot Sales Market Share Forecast by Core Operation Function (2027-2032)

Figure 95. Global Farming Solar Powered Robot Revenue Market Share Forecast by Core Operation Function (2027-2032)

Figure 96. Global Farming Solar Powered Robot Sales Market Share Forecast by Application (2027-2032)

Figure 97. Global Farming Solar Powered Robot Revenue Market Share Forecast by Application (2027-2032)

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