

Global Self-reconfiguring Modular Robot Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Self-reconfiguring Modular Robot market size is expected to reach \$ 219 million by 2032, rising at a market growth of 13.5% CAGR during the forecast period (2026-2032).

In 2025, global sales of Self-reconfiguring Modular Robot reached approximately 75,000?105,000 units, with an average market price of about USD 820?1,150 unit, an annual production capacity of roughly 77,000?110,000 units, and an industry-average gross margin of approximately 30%.

Self-reconfiguring Modular Robots are robotic systems composed of multiple connectable, detachable, and recombinaible modules that can change the overall morphology, degrees of freedom, locomotion mode, functional layout, or task configuration of the robot through mechanical coupling, electrical interconnection, communication, and coordinated control. This study focuses on robot hardware equipment with modular and reconfigurable characteristics, including modular robot blocks, reconfigurable educational robots, research-grade modular robotic platforms, smart actuator and joint module platforms, modular industrial robot systems, and self-reconfigurable robotic prototypes for space, rescue, flexible manufacturing, and embodied AI research. Key technical attributes typically include reversible docking and undocking mechanisms, magnetic or mechanical locking interfaces, distributed control, module identification, topology planning, heterogeneous module coordination, standardized joint and link interfaces, open or visual programming environments, and rapid configuration switching for different operating scenarios.

Based on our research, Self-reconfiguring Modular Robots should be understood as a distinct robotic equipment category rather than a broad label for programmable robots

or flexible automation systems. The defining feature is not merely software flexibility, but the ability of the robotic hardware to be reassembled, recombined, or morphologically adapted through modular interfaces and coordinated control. In the strict academic sense, self-reconfigurable robots involve reversible docking and undocking, distributed control, and topology changes among robotic modules. In commercial practice, however, the market is currently broader but still small: it includes modular educational robots, research-grade modular robotic platforms, smart actuator-based robot development systems, and early modular industrial robot systems. This distinction is important because counting ordinary collaborative robots, mobile robots, humanoids, or STEM construction kits would materially overstate the market and weaken the analytical boundary.

From the supply-side perspective, the global competitive structure is fragmented and technically layered. North America has a strong base in modular educational robotics, research platforms, and space robotics R&D; Europe shows stronger momentum in modular industrial robot systems, low-cost modular automation, and classroom robotics; China has active companies in consumer modular robots, maker education hardware, and robot joint modules; South Korea is represented by modular smart actuator platforms. The core commercial list is therefore much smaller than broad robotics vendor lists. Companies such as HEBI Robotics, ROBOTIS, Modular Robotics, KEYi Technology, Shape Robotics, Barobo, Beckhoff, RobCo, and igus represent different commercial interpretations of 'reconfigurability,' while NASA and university research teams remain important technology sources but should not be counted as commercial OEM revenue. This layered structure explains why the longlist and the revenue model list differ materially.

From the demand-side perspective, education and research remain the largest commercial foundations of the market in 2025, supported by STEM robotics curricula, laboratory prototyping, embodied AI research, and modular actuator-based robot development. The more strategically important growth vector is industrial flexible automation, where modular robots may help manufacturers address frequent changeovers, small-batch production, space constraints, and rising integration costs. Policy support for modular process islands and flexible reconfigurable production lines in China also indicates that industrial demand for reconfigurable automation is becoming more explicit. However, industrial adoption will remain gradual because customers require safety certification, stable control, standardized interfaces, maintenance simplicity, and predictable lifecycle cost before shifting away from proven fixed-configuration robots.

This report studies the global Self-reconfiguring Modular Robot production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Self-reconfiguring Modular Robot 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 Self-reconfiguring Modular Robot that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Self-reconfiguring Modular Robot total production and demand, 2021-2032, (Units)

Global Self-reconfiguring Modular Robot total production value, 2021-2032, (USD Million)

Global Self-reconfiguring Modular Robot production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (Units), (based on production site)

Global Self-reconfiguring Modular Robot consumption by region & country, CAGR, 2021-2032 & (Units)

U.S. VS China: Self-reconfiguring Modular Robot domestic production, consumption, key domestic manufacturers and share

Global Self-reconfiguring Modular Robot production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (Units)

Global Self-reconfiguring Modular Robot production by Type, production, value, CAGR, 2021-2032, (USD Million) & (Units)

Global Self-reconfiguring Modular Robot production by Application, production, value, CAGR, 2021-2032, (USD Million) & (Units)

This report profiles key players in the global Self-reconfiguring Modular Robot 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 HEBI Robotics, ROBOTIS Co., Ltd., Beckhoff Automation GmbH & Co. KG, RobCo GmbH, igus GmbH, Modular Robotics Incorporated, KEYi Technology, Makeblock Co., Ltd., Shape Robotics A/S, Barobo, Inc., 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 Self-reconfiguring Modular Robot 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 Self-reconfiguring Modular Robot Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Self-reconfiguring Modular Robot Market, Segmentation by Type:

Chain Architecture

Lattice Architecture

Hybrid Architecture

Global Self-reconfiguring Modular Robot Market, Segmentation by Autonomy:

Autonomous Self-Reconfigurable Robots

Semi-Autonomous Reconfigurable Robots

Global Self-reconfiguring Modular Robot Market, Segmentation by Architecture:

Lattice Architecture

Chain Architecture

Global Self-reconfiguring Modular Robot Market, Segmentation by Application:

Aerospace

R&D

Others

Companies Profiled:

HEBI Robotics

ROBOTIS Co., Ltd.

Beckhoff Automation GmbH & Co. KG

RobCo GmbH

igus GmbH

Modular Robotics Incorporated

KEYi Technology

Makeblock Co., Ltd.

Shape Robotics A/S

Barobo, Inc.

Robo Wunderkind

Acutronic Robotics

Key Questions Answered:

1. How big is the global Self-reconfiguring Modular Robot market?
2. What is the demand of the global Self-reconfiguring Modular Robot market?
3. What is the year over year growth of the global Self-reconfiguring Modular Robot market?
4. What is the production and production value of the global Self-reconfiguring Modular Robot market?
5. Who are the key producers in the global Self-reconfiguring Modular Robot market?
6. What are the growth factors driving the market demand?

Contents

1 SUPPLY SUMMARY

- 1.1 Self-reconfiguring Modular Robot Introduction
- 1.2 World Self-reconfiguring Modular Robot Supply & Forecast
 - 1.2.1 World Self-reconfiguring Modular Robot Production Value (2021 & 2025 & 2032)
 - 1.2.2 World Self-reconfiguring Modular Robot Production (2021-2032)
 - 1.2.3 World Self-reconfiguring Modular Robot Pricing Trends (2021-2032)
- 1.3 World Self-reconfiguring Modular Robot Production by Region (Based on Production Site)
 - 1.3.1 World Self-reconfiguring Modular Robot Production Value by Region (2021-2032)
 - 1.3.2 World Self-reconfiguring Modular Robot Production by Region (2021-2032)
 - 1.3.3 World Self-reconfiguring Modular Robot Average Price by Region (2021-2032)
 - 1.3.4 North America Self-reconfiguring Modular Robot Production (2021-2032)
 - 1.3.5 Europe Self-reconfiguring Modular Robot Production (2021-2032)
 - 1.3.6 China Self-reconfiguring Modular Robot Production (2021-2032)
 - 1.3.7 Japan Self-reconfiguring Modular Robot Production (2021-2032)
- 1.4 Market Drivers, Restraints and Trends
 - 1.4.1 Self-reconfiguring Modular Robot Market Drivers
 - 1.4.2 Factors Affecting Demand
 - 1.4.3 Self-reconfiguring Modular Robot Major Market Trends

2 DEMAND SUMMARY

- 2.1 World Self-reconfiguring Modular Robot Demand (2021-2032)
- 2.2 World Self-reconfiguring Modular Robot Consumption by Region
 - 2.2.1 World Self-reconfiguring Modular Robot Consumption by Region (2021-2026)
 - 2.2.2 World Self-reconfiguring Modular Robot Consumption Forecast by Region (2027-2032)
- 2.3 United States Self-reconfiguring Modular Robot Consumption (2021-2032)
- 2.4 China Self-reconfiguring Modular Robot Consumption (2021-2032)
- 2.5 Europe Self-reconfiguring Modular Robot Consumption (2021-2032)
- 2.6 Japan Self-reconfiguring Modular Robot Consumption (2021-2032)
- 2.7 South Korea Self-reconfiguring Modular Robot Consumption (2021-2032)
- 2.8 ASEAN Self-reconfiguring Modular Robot Consumption (2021-2032)
- 2.9 India Self-reconfiguring Modular Robot Consumption (2021-2032)

3 WORLD MANUFACTURERS COMPETITIVE ANALYSIS

3.1 World Self-reconfiguring Modular Robot Production Value by Manufacturer (2021-2026)

3.2 World Self-reconfiguring Modular Robot Production by Manufacturer (2021-2026)

3.3 World Self-reconfiguring Modular Robot Average Price by Manufacturer (2021-2026)

3.4 Self-reconfiguring Modular Robot Company Evaluation Quadrant

3.5 Industry Rank and Concentration Rate (CR)

3.5.1 Global Self-reconfiguring Modular Robot Industry Rank of Major Manufacturers

3.5.2 Global Concentration Ratios (CR4) for Self-reconfiguring Modular Robot in 2025

3.5.3 Global Concentration Ratios (CR8) for Self-reconfiguring Modular Robot in 2025

3.6 Self-reconfiguring Modular Robot Market: Overall Company Footprint Analysis

3.6.1 Self-reconfiguring Modular Robot Market: Region Footprint

3.6.2 Self-reconfiguring Modular Robot Market: Company Product Type Footprint

3.6.3 Self-reconfiguring Modular Robot Market: Company Product Application

Footprint

3.7 Competitive Environment

3.7.1 Historical Structure of the Industry

3.7.2 Barriers of Market Entry

3.7.3 Factors of Competition

3.8 New Entrant and Capacity Expansion Plans

3.9 Mergers, Acquisition, Agreements, and Collaborations

4 UNITED STATES VS CHINA VS REST OF THE WORLD

4.1 United States VS China: Self-reconfiguring Modular Robot Production Value Comparison

4.1.1 United States VS China: Self-reconfiguring Modular Robot Production Value Comparison (2021 & 2025 & 2032)

4.1.2 United States VS China: Self-reconfiguring Modular Robot Production Value Market Share Comparison (2021 & 2025 & 2032)

4.2 United States VS China: Self-reconfiguring Modular Robot Production Comparison

4.2.1 United States VS China: Self-reconfiguring Modular Robot Production Comparison (2021 & 2025 & 2032)

4.2.2 United States VS China: Self-reconfiguring Modular Robot Production Market Share Comparison (2021 & 2025 & 2032)

4.3 United States VS China: Self-reconfiguring Modular Robot Consumption Comparison

4.3.1 United States VS China: Self-reconfiguring Modular Robot Consumption Comparison (2021 & 2025 & 2032)

4.3.2 United States VS China: Self-reconfiguring Modular Robot Consumption Market Share Comparison (2021 & 2025 & 2032)

4.4 United States Based Self-reconfiguring Modular Robot Manufacturers and Market Share, 2021-2026

4.4.1 United States Based Self-reconfiguring Modular Robot Manufacturers, Headquarters and Production Site (States, Country)

4.4.2 United States Based Manufacturers Self-reconfiguring Modular Robot Production Value (2021-2026)

4.4.3 United States Based Manufacturers Self-reconfiguring Modular Robot Production (2021-2026)

4.5 China Based Self-reconfiguring Modular Robot Manufacturers and Market Share

4.5.1 China Based Self-reconfiguring Modular Robot Manufacturers, Headquarters and Production Site (Province, Country)

4.5.2 China Based Manufacturers Self-reconfiguring Modular Robot Production Value (2021-2026)

4.5.3 China Based Manufacturers Self-reconfiguring Modular Robot Production (2021-2026)

4.6 Rest of World Based Self-reconfiguring Modular Robot Manufacturers and Market Share, 2021-2026

4.6.1 Rest of World Based Self-reconfiguring Modular Robot Manufacturers, Headquarters and Production Site (State, Country)

4.6.2 Rest of World Based Manufacturers Self-reconfiguring Modular Robot Production Value (2021-2026)

4.6.3 Rest of World Based Manufacturers Self-reconfiguring Modular Robot Production (2021-2026)

5 MARKET ANALYSIS BY TYPE

5.1 World Self-reconfiguring Modular Robot Market Size Overview by Type: 2021 VS 2025 VS 2032

5.2 Segment Introduction by Type

5.2.1 Chain Architecture

5.2.2 Lattice Architecture

5.2.3 Hybrid Architecture

5.3 Market Segment by Type

5.3.1 World Self-reconfiguring Modular Robot Production by Type (2021-2032)

5.3.2 World Self-reconfiguring Modular Robot Production Value by Type (2021-2032)

5.3.3 World Self-reconfiguring Modular Robot Average Price by Type (2021-2032)

6 MARKET ANALYSIS BY AUTONOMY

6.1 World Self-reconfiguring Modular Robot Market Size Overview by Autonomy: 2021 VS 2025 VS 2032

6.2 Segment Introduction by Autonomy

6.2.1 Autonomous Self-Reconfigurable Robots

6.2.2 Semi-Autonomous Reconfigurable Robots

6.3 Market Segment by Autonomy

6.3.1 World Self-reconfiguring Modular Robot Production by Autonomy (2021-2032)

6.3.2 World Self-reconfiguring Modular Robot Production Value by Autonomy (2021-2032)

6.3.3 World Self-reconfiguring Modular Robot Average Price by Autonomy (2021-2032)

7 MARKET ANALYSIS BY ARCHITECTURE

7.1 World Self-reconfiguring Modular Robot Market Size Overview by Architecture: 2021 VS 2025 VS 2032

7.2 Segment Introduction by Architecture

7.2.1 Lattice Architecture

7.2.2 Chain Architecture

7.3 Market Segment by Architecture

7.3.1 World Self-reconfiguring Modular Robot Production by Architecture (2021-2032)

7.3.2 World Self-reconfiguring Modular Robot Production Value by Architecture (2021-2032)

7.3.3 World Self-reconfiguring Modular Robot Average Price by Architecture (2021-2032)

8 MARKET ANALYSIS BY APPLICATION

8.1 World Self-reconfiguring Modular Robot Market Size Overview by Application: 2021 VS 2025 VS 2032

8.2 Segment Introduction by Application

8.2.1 Aerospace

8.2.2 R&D

8.2.3 Others

8.3 Market Segment by Application

- 8.3.1 World Self-reconfiguring Modular Robot Production by Application (2021-2032)
- 8.3.2 World Self-reconfiguring Modular Robot Production Value by Application (2021-2032)
- 8.3.3 World Self-reconfiguring Modular Robot Average Price by Application (2021-2032)

9 COMPANY PROFILES

9.1 HEBI Robotics

- 9.1.1 HEBI Robotics Details
- 9.1.2 HEBI Robotics Major Business
- 9.1.3 HEBI Robotics Self-reconfiguring Modular Robot Product and Services
- 9.1.4 HEBI Robotics Self-reconfiguring Modular Robot Production, Price, Value, Gross Margin and Market Share (2021-2026)
- 9.1.5 HEBI Robotics Recent Developments/Updates
- 9.1.6 HEBI Robotics Competitive Strengths & Weaknesses

9.2 ROBOTIS Co., Ltd.

- 9.2.1 ROBOTIS Co., Ltd. Details
- 9.2.2 ROBOTIS Co., Ltd. Major Business
- 9.2.3 ROBOTIS Co., Ltd. Self-reconfiguring Modular Robot Product and Services
- 9.2.4 ROBOTIS Co., Ltd. Self-reconfiguring Modular Robot Production, Price, Value, Gross Margin and Market Share (2021-2026)
- 9.2.5 ROBOTIS Co., Ltd. Recent Developments/Updates
- 9.2.6 ROBOTIS Co., Ltd. Competitive Strengths & Weaknesses

9.3 Beckhoff Automation GmbH & Co. KG

- 9.3.1 Beckhoff Automation GmbH & Co. KG Details
- 9.3.2 Beckhoff Automation GmbH & Co. KG Major Business
- 9.3.3 Beckhoff Automation GmbH & Co. KG Self-reconfiguring Modular Robot Product and Services
- 9.3.4 Beckhoff Automation GmbH & Co. KG Self-reconfiguring Modular Robot Production, Price, Value, Gross Margin and Market Share (2021-2026)
- 9.3.5 Beckhoff Automation GmbH & Co. KG Recent Developments/Updates
- 9.3.6 Beckhoff Automation GmbH & Co. KG Competitive Strengths & Weaknesses

9.4 RobCo GmbH

- 9.4.1 RobCo GmbH Details
- 9.4.2 RobCo GmbH Major Business
- 9.4.3 RobCo GmbH Self-reconfiguring Modular Robot Product and Services
- 9.4.4 RobCo GmbH Self-reconfiguring Modular Robot Production, Price, Value, Gross Margin and Market Share (2021-2026)

- 9.4.5 RobCo GmbH Recent Developments/Updates
- 9.4.6 RobCo GmbH Competitive Strengths & Weaknesses
- 9.5 igus GmbH
 - 9.5.1 igus GmbH Details
 - 9.5.2 igus GmbH Major Business
 - 9.5.3 igus GmbH Self-reconfiguring Modular Robot Product and Services
 - 9.5.4 igus GmbH Self-reconfiguring Modular Robot Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.5.5 igus GmbH Recent Developments/Updates
 - 9.5.6 igus GmbH Competitive Strengths & Weaknesses
- 9.6 Modular Robotics Incorporated
 - 9.6.1 Modular Robotics Incorporated Details
 - 9.6.2 Modular Robotics Incorporated Major Business
 - 9.6.3 Modular Robotics Incorporated Self-reconfiguring Modular Robot Product and Services
 - 9.6.4 Modular Robotics Incorporated Self-reconfiguring Modular Robot Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.6.5 Modular Robotics Incorporated Recent Developments/Updates
 - 9.6.6 Modular Robotics Incorporated Competitive Strengths & Weaknesses
- 9.7 KEYi Technology
 - 9.7.1 KEYi Technology Details
 - 9.7.2 KEYi Technology Major Business
 - 9.7.3 KEYi Technology Self-reconfiguring Modular Robot Product and Services
 - 9.7.4 KEYi Technology Self-reconfiguring Modular Robot Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.7.5 KEYi Technology Recent Developments/Updates
 - 9.7.6 KEYi Technology Competitive Strengths & Weaknesses
- 9.8 Makeblock Co., Ltd.
 - 9.8.1 Makeblock Co., Ltd. Details
 - 9.8.2 Makeblock Co., Ltd. Major Business
 - 9.8.3 Makeblock Co., Ltd. Self-reconfiguring Modular Robot Product and Services
 - 9.8.4 Makeblock Co., Ltd. Self-reconfiguring Modular Robot Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.8.5 Makeblock Co., Ltd. Recent Developments/Updates
 - 9.8.6 Makeblock Co., Ltd. Competitive Strengths & Weaknesses
- 9.9 Shape Robotics A/S
 - 9.9.1 Shape Robotics A/S Details
 - 9.9.2 Shape Robotics A/S Major Business
 - 9.9.3 Shape Robotics A/S Self-reconfiguring Modular Robot Product and Services

9.9.4 Shape Robotics A/S Self-reconfiguring Modular Robot Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.9.5 Shape Robotics A/S Recent Developments/Updates

9.9.6 Shape Robotics A/S Competitive Strengths & Weaknesses

9.10 Barobo, Inc.

9.10.1 Barobo, Inc. Details

9.10.2 Barobo, Inc. Major Business

9.10.3 Barobo, Inc. Self-reconfiguring Modular Robot Product and Services

9.10.4 Barobo, Inc. Self-reconfiguring Modular Robot Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.10.5 Barobo, Inc. Recent Developments/Updates

9.10.6 Barobo, Inc. Competitive Strengths & Weaknesses

9.11 Robo Wunderkind

9.11.1 Robo Wunderkind Details

9.11.2 Robo Wunderkind Major Business

9.11.3 Robo Wunderkind Self-reconfiguring Modular Robot Product and Services

9.11.4 Robo Wunderkind Self-reconfiguring Modular Robot Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.11.5 Robo Wunderkind Recent Developments/Updates

9.11.6 Robo Wunderkind Competitive Strengths & Weaknesses

9.12 Acutronic Robotics

9.12.1 Acutronic Robotics Details

9.12.2 Acutronic Robotics Major Business

9.12.3 Acutronic Robotics Self-reconfiguring Modular Robot Product and Services

9.12.4 Acutronic Robotics Self-reconfiguring Modular Robot Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.12.5 Acutronic Robotics Recent Developments/Updates

9.12.6 Acutronic Robotics Competitive Strengths & Weaknesses

10 INDUSTRY CHAIN ANALYSIS

10.1 Self-reconfiguring Modular Robot Industry Chain

10.2 Self-reconfiguring Modular Robot Upstream Analysis

10.2.1 Self-reconfiguring Modular Robot Core Raw Materials

10.2.2 Main Manufacturers of Self-reconfiguring Modular Robot Core Raw Materials

10.3 Midstream Analysis

10.4 Downstream Analysis

10.5 Self-reconfiguring Modular Robot Production Mode

10.6 Self-reconfiguring Modular Robot Procurement Model

10.7 Self-reconfiguring Modular Robot Industry Sales Model and Sales Channels

10.7.1 Self-reconfiguring Modular Robot Sales Model

10.7.2 Self-reconfiguring Modular Robot Typical Distributors

11 RESEARCH FINDINGS AND CONCLUSION

12 APPENDIX

12.1 Methodology

12.2 Research Process and Data Source

12.3 Disclaimer

List Of Tables

LIST OF TABLES

Table 1. World Self-reconfiguring Modular Robot Production Value by Region (2021, 2025 and 2032) & (USD Million)

Table 2. World Self-reconfiguring Modular Robot Production Value by Region (2021-2026) & (USD Million)

Table 3. World Self-reconfiguring Modular Robot Production Value by Region (2027-2032) & (USD Million)

Table 4. World Self-reconfiguring Modular Robot Production Value Market Share by Region (2021-2026)

Table 5. World Self-reconfiguring Modular Robot Production Value Market Share by Region (2027-2032)

Table 6. World Self-reconfiguring Modular Robot Production by Region (2021-2026) & (Units)

Table 7. World Self-reconfiguring Modular Robot Production by Region (2027-2032) & (Units)

Table 8. World Self-reconfiguring Modular Robot Production Market Share by Region (2021-2026)

Table 9. World Self-reconfiguring Modular Robot Production Market Share by Region (2027-2032)

Table 10. World Self-reconfiguring Modular Robot Average Price by Region (2021-2026) & (US\$/Unit)

Table 11. World Self-reconfiguring Modular Robot Average Price by Region (2027-2032) & (US\$/Unit)

Table 12. Self-reconfiguring Modular Robot Major Market Trends

Table 13. World Self-reconfiguring Modular Robot Consumption Growth Rate Forecast by Region (2021 & 2025 & 2032) & (Units)

Table 14. World Self-reconfiguring Modular Robot Consumption by Region (2021-2026) & (Units)

Table 15. World Self-reconfiguring Modular Robot Consumption Forecast by Region (2027-2032) & (Units)

Table 16. World Self-reconfiguring Modular Robot Production Value by Manufacturer (2021-2026) & (USD Million)

Table 17. Production Value Market Share of Key Self-reconfiguring Modular Robot Producers in 2025

Table 18. World Self-reconfiguring Modular Robot Production by Manufacturer (2021-2026) & (Units)

Table 19. Production Market Share of Key Self-reconfiguring Modular Robot Producers in 2025

Table 20. World Self-reconfiguring Modular Robot Average Price by Manufacturer (2021-2026) & (US\$/Unit)

Table 21. Global Self-reconfiguring Modular Robot Company Evaluation Quadrant

Table 22. World Self-reconfiguring Modular Robot Industry Rank of Major Manufacturers, Based on Production Value in 2025

Table 23. Head Office and Self-reconfiguring Modular Robot Production Site of Key Manufacturer

Table 24. Self-reconfiguring Modular Robot Market: Company Product Type Footprint

Table 25. Self-reconfiguring Modular Robot Market: Company Product Application Footprint

Table 26. Self-reconfiguring Modular Robot Competitive Factors

Table 27. Self-reconfiguring Modular Robot New Entrant and Capacity Expansion Plans

Table 28. Self-reconfiguring Modular Robot Mergers & Acquisitions Activity

Table 29. United States VS China Self-reconfiguring Modular Robot Production Value Comparison, (2021 & 2025 & 2032) & (USD Million)

Table 30. United States VS China Self-reconfiguring Modular Robot Production Comparison, (2021 & 2025 & 2032) & (Units)

Table 31. United States VS China Self-reconfiguring Modular Robot Consumption Comparison, (2021 & 2025 & 2032) & (Units)

Table 32. United States Based Self-reconfiguring Modular Robot Manufacturers, Headquarters and Production Site (States, Country)

Table 33. United States Based Manufacturers Self-reconfiguring Modular Robot Production Value, (2021-2026) & (USD Million)

Table 34. United States Based Manufacturers Self-reconfiguring Modular Robot Production Value Market Share (2021-2026)

Table 35. United States Based Manufacturers Self-reconfiguring Modular Robot Production (2021-2026) & (Units)

Table 36. United States Based Manufacturers Self-reconfiguring Modular Robot Production Market Share (2021-2026)

Table 37. China Based Self-reconfiguring Modular Robot Manufacturers, Headquarters and Production Site (Province, Country)

Table 38. China Based Manufacturers Self-reconfiguring Modular Robot Production Value, (2021-2026) & (USD Million)

Table 39. China Based Manufacturers Self-reconfiguring Modular Robot Production Value Market Share (2021-2026)

Table 40. China Based Manufacturers Self-reconfiguring Modular Robot Production, (2021-2026) & (Units)

Table 41. China Based Manufacturers Self-reconfiguring Modular Robot Production Market Share (2021-2026)

Table 42. Rest of World Based Self-reconfiguring Modular Robot Manufacturers, Headquarters and Production Site (State, Country)

Table 43. Rest of World Based Manufacturers Self-reconfiguring Modular Robot Production Value, (2021-2026) & (USD Million)

Table 44. Rest of World Based Manufacturers Self-reconfiguring Modular Robot Production Value Market Share (2021-2026)

Table 45. Rest of World Based Manufacturers Self-reconfiguring Modular Robot Production, (2021-2026) & (Units)

Table 46. Rest of World Based Manufacturers Self-reconfiguring Modular Robot Production Market Share (2021-2026)

Table 47. World Self-reconfiguring Modular Robot Production Value by Type, (USD Million), 2021 & 2025 & 2032

Table 48. World Self-reconfiguring Modular Robot Production by Type (2021-2026) & (Units)

Table 49. World Self-reconfiguring Modular Robot Production by Type (2027-2032) & (Units)

Table 50. World Self-reconfiguring Modular Robot Production Value by Type (2021-2026) & (USD Million)

Table 51. World Self-reconfiguring Modular Robot Production Value by Type (2027-2032) & (USD Million)

Table 52. World Self-reconfiguring Modular Robot Average Price by Type (2021-2026) & (US\$/Unit)

Table 53. World Self-reconfiguring Modular Robot Average Price by Type (2027-2032) & (US\$/Unit)

Table 54. World Self-reconfiguring Modular Robot Production Value by Autonomy, (USD Million), 2021 & 2025 & 2032

Table 55. World Self-reconfiguring Modular Robot Production by Autonomy (2021-2026) & (Units)

Table 56. World Self-reconfiguring Modular Robot Production by Autonomy (2027-2032) & (Units)

Table 57. World Self-reconfiguring Modular Robot Production Value by Autonomy (2021-2026) & (USD Million)

Table 58. World Self-reconfiguring Modular Robot Production Value by Autonomy (2027-2032) & (USD Million)

Table 59. World Self-reconfiguring Modular Robot Average Price by Autonomy (2021-2026) & (US\$/Unit)

Table 60. World Self-reconfiguring Modular Robot Average Price by Autonomy

(2027-2032) & (US\$/Unit)

Table 61. World Self-reconfiguring Modular Robot Production Value by Architecture, (USD Million), 2021 & 2025 & 2032

Table 62. World Self-reconfiguring Modular Robot Production by Architecture (2021-2026) & (Units)

Table 63. World Self-reconfiguring Modular Robot Production by Architecture (2027-2032) & (Units)

Table 64. World Self-reconfiguring Modular Robot Production Value by Architecture (2021-2026) & (USD Million)

Table 65. World Self-reconfiguring Modular Robot Production Value by Architecture (2027-2032) & (USD Million)

Table 66. World Self-reconfiguring Modular Robot Average Price by Architecture (2021-2026) & (US\$/Unit)

Table 67. World Self-reconfiguring Modular Robot Average Price by Architecture (2027-2032) & (US\$/Unit)

Table 68. World Self-reconfiguring Modular Robot Production Value by Application, (USD Million), 2021 & 2025 & 2032

Table 69. World Self-reconfiguring Modular Robot Production by Application (2021-2026) & (Units)

Table 70. World Self-reconfiguring Modular Robot Production by Application (2027-2032) & (Units)

Table 71. World Self-reconfiguring Modular Robot Production Value by Application (2021-2026) & (USD Million)

Table 72. World Self-reconfiguring Modular Robot Production Value by Application (2027-2032) & (USD Million)

Table 73. World Self-reconfiguring Modular Robot Average Price by Application (2021-2026) & (US\$/Unit)

Table 74. World Self-reconfiguring Modular Robot Average Price by Application (2027-2032) & (US\$/Unit)

Table 75. HEBI Robotics Basic Information, Manufacturing Base and Competitors

Table 76. HEBI Robotics Major Business

Table 77. HEBI Robotics Self-reconfiguring Modular Robot Product and Services

Table 78. HEBI Robotics Self-reconfiguring Modular Robot Production (Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 79. HEBI Robotics Recent Developments/Updates

Table 80. HEBI Robotics Competitive Strengths & Weaknesses

Table 81. ROBOTIS Co., Ltd. Basic Information, Manufacturing Base and Competitors

Table 82. ROBOTIS Co., Ltd. Major Business

Table 83. ROBOTIS Co., Ltd. Self-reconfiguring Modular Robot Product and Services

Table 84. ROBOTIS Co., Ltd. Self-reconfiguring Modular Robot Production (Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 85. ROBOTIS Co., Ltd. Recent Developments/Updates

Table 86. ROBOTIS Co., Ltd. Competitive Strengths & Weaknesses

Table 87. Beckhoff Automation GmbH & Co. KG Basic Information, Manufacturing Base and Competitors

Table 88. Beckhoff Automation GmbH & Co. KG Major Business

Table 89. Beckhoff Automation GmbH & Co. KG Self-reconfiguring Modular Robot Product and Services

Table 90. Beckhoff Automation GmbH & Co. KG Self-reconfiguring Modular Robot Production (Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 91. Beckhoff Automation GmbH & Co. KG Recent Developments/Updates

Table 92. Beckhoff Automation GmbH & Co. KG Competitive Strengths & Weaknesses

Table 93. RobCo GmbH Basic Information, Manufacturing Base and Competitors

Table 94. RobCo GmbH Major Business

Table 95. RobCo GmbH Self-reconfiguring Modular Robot Product and Services

Table 96. RobCo GmbH Self-reconfiguring Modular Robot Production (Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 97. RobCo GmbH Recent Developments/Updates

Table 98. RobCo GmbH Competitive Strengths & Weaknesses

Table 99. igus GmbH Basic Information, Manufacturing Base and Competitors

Table 100. igus GmbH Major Business

Table 101. igus GmbH Self-reconfiguring Modular Robot Product and Services

Table 102. igus GmbH Self-reconfiguring Modular Robot Production (Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 103. igus GmbH Recent Developments/Updates

Table 104. igus GmbH Competitive Strengths & Weaknesses

Table 105. Modular Robotics Incorporated Basic Information, Manufacturing Base and Competitors

Table 106. Modular Robotics Incorporated Major Business

Table 107. Modular Robotics Incorporated Self-reconfiguring Modular Robot Product and Services

Table 108. Modular Robotics Incorporated Self-reconfiguring Modular Robot Production (Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market

Share (2021-2026)

Table 109. Modular Robotics Incorporated Recent Developments/Updates

Table 110. Modular Robotics Incorporated Competitive Strengths & Weaknesses

Table 111. KEYi Technology Basic Information, Manufacturing Base and Competitors

Table 112. KEYi Technology Major Business

Table 113. KEYi Technology Self-reconfiguring Modular Robot Product and Services

Table 114. KEYi Technology Self-reconfiguring Modular Robot Production (Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 115. KEYi Technology Recent Developments/Updates

Table 116. KEYi Technology Competitive Strengths & Weaknesses

Table 117. Makeblock Co., Ltd. Basic Information, Manufacturing Base and Competitors

Table 118. Makeblock Co., Ltd. Major Business

Table 119. Makeblock Co., Ltd. Self-reconfiguring Modular Robot Product and Services

Table 120. Makeblock Co., Ltd. Self-reconfiguring Modular Robot Production (Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 121. Makeblock Co., Ltd. Recent Developments/Updates

Table 122. Makeblock Co., Ltd. Competitive Strengths & Weaknesses

Table 123. Shape Robotics A/S Basic Information, Manufacturing Base and Competitors

Table 124. Shape Robotics A/S Major Business

Table 125. Shape Robotics A/S Self-reconfiguring Modular Robot Product and Services

Table 126. Shape Robotics A/S Self-reconfiguring Modular Robot Production (Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 127. Shape Robotics A/S Recent Developments/Updates

Table 128. Shape Robotics A/S Competitive Strengths & Weaknesses

Table 129. Barobo, Inc. Basic Information, Manufacturing Base and Competitors

Table 130. Barobo, Inc. Major Business

Table 131. Barobo, Inc. Self-reconfiguring Modular Robot Product and Services

Table 132. Barobo, Inc. Self-reconfiguring Modular Robot Production (Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 133. Barobo, Inc. Recent Developments/Updates

Table 134. Barobo, Inc. Competitive Strengths & Weaknesses

Table 135. Robo Wunderkind Basic Information, Manufacturing Base and Competitors

Table 136. Robo Wunderkind Major Business

Table 137. Robo Wunderkind Self-reconfiguring Modular Robot Product and Services

Table 138. Robo Wunderkind Self-reconfiguring Modular Robot Production (Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 139. Robo Wunderkind Recent Developments/Updates

Table 140. Robo Wunderkind Competitive Strengths & Weaknesses

Table 141. Acutronic Robotics Basic Information, Manufacturing Base and Competitors

Table 142. Acutronic Robotics Major Business

Table 143. Acutronic Robotics Self-reconfiguring Modular Robot Product and Services

Table 144. Acutronic Robotics Self-reconfiguring Modular Robot Production (Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 145. Acutronic Robotics Recent Developments/Updates

Table 146. Acutronic Robotics Competitive Strengths & Weaknesses

Table 147. Global Key Players of Self-reconfiguring Modular Robot Upstream (Raw Materials)

Table 148. Global Self-reconfiguring Modular Robot Typical Customers

Table 149. Self-reconfiguring Modular Robot Typical Distributors

List Of Figures

LIST OF FIGURES

Figure 1. Self-reconfiguring Modular Robot Picture

Figure 2. World Self-reconfiguring Modular Robot Production Value: 2021 & 2025 & 2032, (USD Million)

Figure 3. World Self-reconfiguring Modular Robot Production Value and Forecast (2021-2032) & (USD Million)

Figure 4. World Self-reconfiguring Modular Robot Production (2021-2032) & (Units)

Figure 5. World Self-reconfiguring Modular Robot Average Price (2021-2032) & (US\$/Unit)

Figure 6. World Self-reconfiguring Modular Robot Production Value Market Share by Region (2021-2032)

Figure 7. World Self-reconfiguring Modular Robot Production Market Share by Region (2021-2032)

Figure 8. North America Self-reconfiguring Modular Robot Production (2021-2032) & (Units)

Figure 9. Europe Self-reconfiguring Modular Robot Production (2021-2032) & (Units)

Figure 10. China Self-reconfiguring Modular Robot Production (2021-2032) & (Units)

Figure 11. Japan Self-reconfiguring Modular Robot Production (2021-2032) & (Units)

Figure 12. Self-reconfiguring Modular Robot Market Drivers

Figure 13. Factors Affecting Demand

Figure 14. World Self-reconfiguring Modular Robot Consumption (2021-2032) & (Units)

Figure 15. World Self-reconfiguring Modular Robot Consumption Market Share by Region (2021-2032)

Figure 16. United States Self-reconfiguring Modular Robot Consumption (2021-2032) & (Units)

Figure 17. China Self-reconfiguring Modular Robot Consumption (2021-2032) & (Units)

Figure 18. Europe Self-reconfiguring Modular Robot Consumption (2021-2032) & (Units)

Figure 19. Japan Self-reconfiguring Modular Robot Consumption (2021-2032) & (Units)

Figure 20. South Korea Self-reconfiguring Modular Robot Consumption (2021-2032) & (Units)

Figure 21. ASEAN Self-reconfiguring Modular Robot Consumption (2021-2032) & (Units)

Figure 22. India Self-reconfiguring Modular Robot Consumption (2021-2032) & (Units)

Figure 23. Producer Shipments of Self-reconfiguring Modular Robot by Manufacturer Revenue (\$MM) and Market Share (%): 2025

Figure 24. Global Four-firm Concentration Ratios (CR4) for Self-reconfiguring Modular Robot Markets in 2025

Figure 25. Global Four-firm Concentration Ratios (CR8) for Self-reconfiguring Modular Robot Markets in 2025

Figure 26. United States VS China: Self-reconfiguring Modular Robot Production Value Market Share Comparison (2021 & 2025 & 2032)

Figure 27. United States VS China: Self-reconfiguring Modular Robot Production Market Share Comparison (2021 & 2025 & 2032)

Figure 28. United States VS China: Self-reconfiguring Modular Robot Consumption Market Share Comparison (2021 & 2025 & 2032)

Figure 29. United States Based Manufacturers Self-reconfiguring Modular Robot Production Market Share 2025

Figure 30. China Based Manufacturers Self-reconfiguring Modular Robot Production Market Share 2025

Figure 31. Rest of World Based Manufacturers Self-reconfiguring Modular Robot Production Market Share 2025

Figure 32. World Self-reconfiguring Modular Robot Production Value by Type, (USD Million), 2021 & 2025 & 2032

Figure 33. World Self-reconfiguring Modular Robot Production Value Market Share by Type in 2025

Figure 34. Chain Architecture

Figure 35. Lattice Architecture

Figure 36. Hybrid Architecture

Figure 37. World Self-reconfiguring Modular Robot Production Market Share by Type (2021-2032)

Figure 38. World Self-reconfiguring Modular Robot Production Value Market Share by Type (2021-2032)

Figure 39. World Self-reconfiguring Modular Robot Average Price by Type (2021-2032) & (US\$/Unit)

Figure 40. World Self-reconfiguring Modular Robot Production Value by Autonomy, (USD Million), 2021 & 2025 & 2032

Figure 41. World Self-reconfiguring Modular Robot Production Value Market Share by Autonomy in 2025

Figure 42. Autonomous Self-Reconfigurable Robots

Figure 43. Semi-Autonomous Reconfigurable Robots

Figure 44. World Self-reconfiguring Modular Robot Production Market Share by Autonomy (2021-2032)

Figure 45. World Self-reconfiguring Modular Robot Production Value Market Share by Autonomy (2021-2032)

Figure 46. World Self-reconfiguring Modular Robot Average Price by Autonomy (2021-2032) & (US\$/Unit)

Figure 47. World Self-reconfiguring Modular Robot Production Value by Architecture, (USD Million), 2021 & 2025 & 2032

Figure 48. World Self-reconfiguring Modular Robot Production Value Market Share by Architecture in 2025

Figure 49. Lattice Architecture

Figure 50. Chain Architecture

Figure 51. World Self-reconfiguring Modular Robot Production Market Share by Architecture (2021-2032)

Figure 52. World Self-reconfiguring Modular Robot Production Value Market Share by Architecture (2021-2032)

Figure 53. World Self-reconfiguring Modular Robot Average Price by Architecture (2021-2032) & (US\$/Unit)

Figure 54. World Self-reconfiguring Modular Robot Production Value by Application, (USD Million), 2021 & 2025 & 2032

Figure 55. World Self-reconfiguring Modular Robot Production Value Market Share by Application in 2025

Figure 56. Aerospace

Figure 57. R&D

Figure 58. Others

Figure 59. World Self-reconfiguring Modular Robot Production Market Share by Application (2021-2032)

Figure 60. World Self-reconfiguring Modular Robot Production Value Market Share by Application (2021-2032)

Figure 61. World Self-reconfiguring Modular Robot Average Price by Application (2021-2032) & (US\$/Unit)

Figure 62. Self-reconfiguring Modular Robot Industry Chain

Figure 63. Self-reconfiguring Modular Robot Procurement Model

Figure 64. Self-reconfiguring Modular Robot Sales Model

Figure 65. Self-reconfiguring Modular Robot Sales Channels, Direct Sales, and Distribution

Figure 66. Methodology

Figure 67. Research Process and Data Source

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