

Global Programmable Building Block Toys Market 2026 by Manufacturers, Regions, Type and Application, Forecast to 2032

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Abstracts

According to our (Global Info Research) latest study, the global Programmable Building Block Toys market size was valued at US\$ 1873 million in 2025 and is forecast to a readjusted size of US\$ 2663 million by 2032 with a CAGR of 5.2% during review period.

Programmable Building Block Toys are essentially portable computers embedded within building blocks, like LEGO bricks, capable of interacting with the physical world through various means such as sensors and infrared communication. They enable children to design, invent, and program their creations, fostering a hands-on understanding of computational ideas and principles. The programmable building block toy industry chain includes upstream ABS plastic building blocks, microcontrollers, motors, sensors, batteries, and wireless modules. Midstream manufacturers integrate mechanical parts, electronic systems, firmware, and user interfaces. Downstream applications encompass toy retailers, e-commerce platforms, after-school education service providers, and enthusiast communities. Service providers also offer assembly guides, programming tutorials, online support, and software updates to enhance user engagement and learning outcomes. In 2025, global production of programmable building block toys was approximately 22,750,000 units, with an average global market price of approximately US\$80 per unit. Gross profit margins for major companies in the industry ranged from 25% to 45%. In 2025, global production capacity of programmable building block toys was approximately 28,000,000 units.

The market for programmable building block toys is expanding as demand for educational and STEM-oriented play increases among children, parents, and educators. These toys bridge traditional construction play with coding skills, making learning interactive and engaging. With rising digital literacy expectations and integration of

technology in early education, programmable building block toys appeal to school programs, after-school clubs, and home users. Technological advances such as modular electronics, app-based programming, and cloud platforms enhance product capabilities. E-commerce growth and global distribution networks boost accessibility and variety. Manufacturers focus on improving user experience, safety, affordability, and content ecosystems. Sustainability trends encourage use of eco-friendly materials and recyclable components. Overall, the market is expected to grow steadily as educational priorities and digital learning tools continue to expand worldwide.

This report is a detailed and comprehensive analysis for global Programmable Building Block Toys market. Both quantitative and qualitative analyses are presented by manufacturers, by region & country, by Type and by Application. As the market is constantly changing, this report explores the competition, supply and demand trends, as well as key factors that contribute to its changing demands across many markets. Company profiles and product examples of selected competitors, along with market share estimates of some of the selected leaders for the year 2025, are provided.

Key Features:

Global Programmable Building Block Toys market size and forecasts, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2021-2032

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

Global Programmable Building Block Toys market size and forecasts, by Type and by Application, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2021-2032

Global Programmable Building Block Toys market shares of main players, shipments in revenue (\$ Million), sales quantity (K Units), and ASP (US\$/Unit), 2021-2026

The Primary Objectives in This Report Are:

To determine the size of the total market opportunity of global and key countries

To assess the growth potential for Programmable Building Block Toys

To forecast future growth in each product and end-use market

To assess competitive factors affecting the marketplace

This report profiles key players in the global Programmable Building Block Toys market based on the following parameters - company overview, sales quantity, revenue, price, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include LEGO, Toyster Brinquedos, Skillmatics, Magformers, Woma, Makeblock, Fischertechnik, Modular Robotics, Sphero, Xiaomi, etc.

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

Market Segmentation

Programmable Building Block Toys market is split by Type and by Application. For the period 2021-2032, the growth among segments provides accurate calculations and forecasts for consumption value by Type, and by Application in terms of volume and value. This analysis can help you expand your business by targeting qualified niche markets.

Market segment by Type

Scratch Programmable Toys

Python Programmable Toys

Market segment by Programming Method

Graphical Programming Block Toys

Text-Based Programming Block Toys

Hybrid Programming Block Toys

Market segment by Product Type

Robot Building Block Kits

Smart Electronic Building Blocks

Educational Coding Brick Systems

Market segment by Application

Children Aged 0-6 Years Old

Children Aged 7-12 Years Old

Children Aged 12-16 Years Old

Major players covered

LEGO

Toyster Brinquedos

Skillmatics

Magformers

Woma

Makeblock

Fischertechnik

Modular Robotics

Sphero

Xiaomi

Market segment by region, regional analysis covers

North America (United States, Canada, and Mexico)

Europe (Germany, France, United Kingdom, Russia, Italy, and Rest of Europe)

Asia-Pacific (China, Japan, Korea, India, Southeast Asia, and Australia)

South America (Brazil, Argentina, Colombia, and Rest of South America)

Middle East & Africa (Saudi Arabia, UAE, Egypt, South Africa, and Rest of Middle East & Africa)

The content of the study subjects, includes a total of 15 chapters:

Chapter 1, to describe Programmable Building Block Toys product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Programmable Building Block Toys, with price, sales quantity, revenue, and global market share of Programmable Building Block Toys from 2021 to 2026.

Chapter 3, the Programmable Building Block Toys competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the Programmable Building Block Toys breakdown data are shown at the regional level, to show the sales quantity, consumption value, and growth by regions, from 2021 to 2032.

Chapter 5 and 6, to segment the sales by Type and by Application, with sales market share and growth rate by Type, by Application, from 2021 to 2032.

Chapter 7, 8, 9, 10 and 11, to break the sales data at the country level, with sales quantity, consumption value, and market share for key countries in the world, from 2021 to 2026.and Programmable Building Block Toys market

forecast, by regions, by Type, and by Application, with sales and revenue, from 2027 to 2032.

Chapter 12, market dynamics, drivers, restraints, trends, and Porters Five Forces analysis.

Chapter 13, the key raw materials and key suppliers, and industry chain of Programmable Building Block Toys.

Chapter 14 and 15, to describe Programmable Building Block Toys sales channel, distributors, customers, research findings and conclusion.

Contents

1 MARKET OVERVIEW

1.1 Product Overview and Scope

1.2 Market Estimation Caveats and Base Year

1.3 Market Analysis by Type

1.3.1 Overview: Global Programmable Building Block Toys Consumption Value by Type: 2021 Versus 2025 Versus 2032

1.3.2 Scratch Programmable Toys

1.3.3 Python Programmable Toys

1.4 Market Analysis by Programming Method

1.4.1 Overview: Global Programmable Building Block Toys Consumption Value by Programming Method: 2021 Versus 2025 Versus 2032

1.4.2 Graphical Programming Block Toys

1.4.3 Text-Based Programming Block Toys

1.4.4 Hybrid Programming Block Toys

1.5 Market Analysis by Product Type

1.5.1 Overview: Global Programmable Building Block Toys Consumption Value by Product Type: 2021 Versus 2025 Versus 2032

1.5.2 Robot Building Block Kits

1.5.3 Smart Electronic Building Blocks

1.5.4 Educational Coding Brick Systems

1.6 Market Analysis by Application

1.6.1 Overview: Global Programmable Building Block Toys Consumption Value by Application: 2021 Versus 2025 Versus 2032

1.6.2 Children Aged 0-6 Years Old

1.6.3 Children Aged 7-12 Years Old

1.6.4 Children Aged 12-16 Years Old

1.7 Global Programmable Building Block Toys Market Size & Forecast

1.7.1 Global Programmable Building Block Toys Consumption Value (2021 & 2025 & 2032)

1.7.2 Global Programmable Building Block Toys Sales Quantity (2021-2032)

1.7.3 Global Programmable Building Block Toys Average Price (2021-2032)

2 MANUFACTURERS PROFILES

2.1 LEGO

2.1.1 LEGO Details

- 2.1.2 LEGO Major Business
- 2.1.3 LEGO Programmable Building Block Toys Product and Services
- 2.1.4 LEGO Programmable Building Block Toys Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)
- 2.1.5 LEGO Recent Developments/Updates
- 2.2 Toyster Brinquedos
 - 2.2.1 Toyster Brinquedos Details
 - 2.2.2 Toyster Brinquedos Major Business
 - 2.2.3 Toyster Brinquedos Programmable Building Block Toys Product and Services
 - 2.2.4 Toyster Brinquedos Programmable Building Block Toys Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)
 - 2.2.5 Toyster Brinquedos Recent Developments/Updates
- 2.3 Skillmatics
 - 2.3.1 Skillmatics Details
 - 2.3.2 Skillmatics Major Business
 - 2.3.3 Skillmatics Programmable Building Block Toys Product and Services
 - 2.3.4 Skillmatics Programmable Building Block Toys Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)
 - 2.3.5 Skillmatics Recent Developments/Updates
- 2.4 Magformers
 - 2.4.1 Magformers Details
 - 2.4.2 Magformers Major Business
 - 2.4.3 Magformers Programmable Building Block Toys Product and Services
 - 2.4.4 Magformers Programmable Building Block Toys Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)
 - 2.4.5 Magformers Recent Developments/Updates
- 2.5 Woma
 - 2.5.1 Woma Details
 - 2.5.2 Woma Major Business
 - 2.5.3 Woma Programmable Building Block Toys Product and Services
 - 2.5.4 Woma Programmable Building Block Toys Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)
 - 2.5.5 Woma Recent Developments/Updates
- 2.6 Makeblock
 - 2.6.1 Makeblock Details
 - 2.6.2 Makeblock Major Business
 - 2.6.3 Makeblock Programmable Building Block Toys Product and Services
 - 2.6.4 Makeblock Programmable Building Block Toys Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)

- 2.6.5 Makeblock Recent Developments/Updates
- 2.7 Fischertechnik
 - 2.7.1 Fischertechnik Details
 - 2.7.2 Fischertechnik Major Business
 - 2.7.3 Fischertechnik Programmable Building Block Toys Product and Services
 - 2.7.4 Fischertechnik Programmable Building Block Toys Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)
 - 2.7.5 Fischertechnik Recent Developments/Updates
- 2.8 Modular Robotics
 - 2.8.1 Modular Robotics Details
 - 2.8.2 Modular Robotics Major Business
 - 2.8.3 Modular Robotics Programmable Building Block Toys Product and Services
 - 2.8.4 Modular Robotics Programmable Building Block Toys Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)
 - 2.8.5 Modular Robotics Recent Developments/Updates
- 2.9 Sphero
 - 2.9.1 Sphero Details
 - 2.9.2 Sphero Major Business
 - 2.9.3 Sphero Programmable Building Block Toys Product and Services
 - 2.9.4 Sphero Programmable Building Block Toys Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)
 - 2.9.5 Sphero Recent Developments/Updates
- 2.10 Xiaomi
 - 2.10.1 Xiaomi Details
 - 2.10.2 Xiaomi Major Business
 - 2.10.3 Xiaomi Programmable Building Block Toys Product and Services
 - 2.10.4 Xiaomi Programmable Building Block Toys Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)
 - 2.10.5 Xiaomi Recent Developments/Updates

3 COMPETITIVE ENVIRONMENT: PROGRAMMABLE BUILDING BLOCK TOYS BY MANUFACTURER

- 3.1 Global Programmable Building Block Toys Sales Quantity by Manufacturer (2021-2026)
- 3.2 Global Programmable Building Block Toys Revenue by Manufacturer (2021-2026)
- 3.3 Global Programmable Building Block Toys Average Price by Manufacturer (2021-2026)
- 3.4 Market Share Analysis (2025)

- 3.4.1 Producer Shipments of Programmable Building Block Toys by Manufacturer Revenue (\$MM) and Market Share (%): 2025
- 3.4.2 Top 3 Programmable Building Block Toys Manufacturer Market Share in 2025
- 3.4.3 Top 6 Programmable Building Block Toys Manufacturer Market Share in 2025
- 3.5 Programmable Building Block Toys Market: Overall Company Footprint Analysis
 - 3.5.1 Programmable Building Block Toys Market: Region Footprint
 - 3.5.2 Programmable Building Block Toys Market: Company Product Type Footprint
 - 3.5.3 Programmable Building Block Toys Market: Company Product Application Footprint
- 3.6 New Market Entrants and Barriers to Market Entry
- 3.7 Mergers, Acquisition, Agreements, and Collaborations

4 CONSUMPTION ANALYSIS BY REGION

- 4.1 Global Programmable Building Block Toys Market Size by Region
 - 4.1.1 Global Programmable Building Block Toys Sales Quantity by Region (2021-2032)
 - 4.1.2 Global Programmable Building Block Toys Consumption Value by Region (2021-2032)
 - 4.1.3 Global Programmable Building Block Toys Average Price by Region (2021-2032)
- 4.2 North America Programmable Building Block Toys Consumption Value (2021-2032)
- 4.3 Europe Programmable Building Block Toys Consumption Value (2021-2032)
- 4.4 Asia-Pacific Programmable Building Block Toys Consumption Value (2021-2032)
- 4.5 South America Programmable Building Block Toys Consumption Value (2021-2032)
- 4.6 Middle East & Africa Programmable Building Block Toys Consumption Value (2021-2032)

5 MARKET SEGMENT BY TYPE

- 5.1 Global Programmable Building Block Toys Sales Quantity by Type (2021-2032)
- 5.2 Global Programmable Building Block Toys Consumption Value by Type (2021-2032)
- 5.3 Global Programmable Building Block Toys Average Price by Type (2021-2032)

6 MARKET SEGMENT BY APPLICATION

- 6.1 Global Programmable Building Block Toys Sales Quantity by Application (2021-2032)
- 6.2 Global Programmable Building Block Toys Consumption Value by Application (2021-2032)

6.3 Global Programmable Building Block Toys Average Price by Application (2021-2032)

7 NORTH AMERICA

7.1 North America Programmable Building Block Toys Sales Quantity by Type (2021-2032)

7.2 North America Programmable Building Block Toys Sales Quantity by Application (2021-2032)

7.3 North America Programmable Building Block Toys Market Size by Country

7.3.1 North America Programmable Building Block Toys Sales Quantity by Country (2021-2032)

7.3.2 North America Programmable Building Block Toys Consumption Value by Country (2021-2032)

7.3.3 United States Market Size and Forecast (2021-2032)

7.3.4 Canada Market Size and Forecast (2021-2032)

7.3.5 Mexico Market Size and Forecast (2021-2032)

8 EUROPE

8.1 Europe Programmable Building Block Toys Sales Quantity by Type (2021-2032)

8.2 Europe Programmable Building Block Toys Sales Quantity by Application (2021-2032)

8.3 Europe Programmable Building Block Toys Market Size by Country

8.3.1 Europe Programmable Building Block Toys Sales Quantity by Country (2021-2032)

8.3.2 Europe Programmable Building Block Toys Consumption Value by Country (2021-2032)

8.3.3 Germany Market Size and Forecast (2021-2032)

8.3.4 France Market Size and Forecast (2021-2032)

8.3.5 United Kingdom Market Size and Forecast (2021-2032)

8.3.6 Russia Market Size and Forecast (2021-2032)

8.3.7 Italy Market Size and Forecast (2021-2032)

9 ASIA-PACIFIC

9.1 Asia-Pacific Programmable Building Block Toys Sales Quantity by Type (2021-2032)

9.2 Asia-Pacific Programmable Building Block Toys Sales Quantity by Application

(2021-2032)

9.3 Asia-Pacific Programmable Building Block Toys Market Size by Region

9.3.1 Asia-Pacific Programmable Building Block Toys Sales Quantity by Region

(2021-2032)

9.3.2 Asia-Pacific Programmable Building Block Toys Consumption Value by Region

(2021-2032)

9.3.3 China Market Size and Forecast (2021-2032)

9.3.4 Japan Market Size and Forecast (2021-2032)

9.3.5 South Korea Market Size and Forecast (2021-2032)

9.3.6 India Market Size and Forecast (2021-2032)

9.3.7 Southeast Asia Market Size and Forecast (2021-2032)

9.3.8 Australia Market Size and Forecast (2021-2032)

10 SOUTH AMERICA

10.1 South America Programmable Building Block Toys Sales Quantity by Type

(2021-2032)

10.2 South America Programmable Building Block Toys Sales Quantity by Application

(2021-2032)

10.3 South America Programmable Building Block Toys Market Size by Country

10.3.1 South America Programmable Building Block Toys Sales Quantity by Country

(2021-2032)

10.3.2 South America Programmable Building Block Toys Consumption Value by Country (2021-2032)

10.3.3 Brazil Market Size and Forecast (2021-2032)

10.3.4 Argentina Market Size and Forecast (2021-2032)

11 MIDDLE EAST & AFRICA

11.1 Middle East & Africa Programmable Building Block Toys Sales Quantity by Type (2021-2032)

11.2 Middle East & Africa Programmable Building Block Toys Sales Quantity by Application (2021-2032)

11.3 Middle East & Africa Programmable Building Block Toys Market Size by Country

11.3.1 Middle East & Africa Programmable Building Block Toys Sales Quantity by Country (2021-2032)

11.3.2 Middle East & Africa Programmable Building Block Toys Consumption Value by Country (2021-2032)

11.3.3 Turkey Market Size and Forecast (2021-2032)

- 11.3.4 Egypt Market Size and Forecast (2021-2032)
- 11.3.5 Saudi Arabia Market Size and Forecast (2021-2032)
- 11.3.6 South Africa Market Size and Forecast (2021-2032)

12 MARKET DYNAMICS

- 12.1 Programmable Building Block Toys Market Drivers
- 12.2 Programmable Building Block Toys Market Restraints
- 12.3 Programmable Building Block Toys Trends Analysis
- 12.4 Porters Five Forces Analysis
 - 12.4.1 Threat of New Entrants
 - 12.4.2 Bargaining Power of Suppliers
 - 12.4.3 Bargaining Power of Buyers
 - 12.4.4 Threat of Substitutes
 - 12.4.5 Competitive Rivalry

13 RAW MATERIAL AND INDUSTRY CHAIN

- 13.1 Raw Material of Programmable Building Block Toys and Key Manufacturers
- 13.2 Manufacturing Costs Percentage of Programmable Building Block Toys
- 13.3 Programmable Building Block Toys Production Process
- 13.4 Industry Value Chain Analysis

14 SHIPMENTS BY DISTRIBUTION CHANNEL

- 14.1 Sales Channel
 - 14.1.1 Direct to End-User
 - 14.1.2 Distributors
- 14.2 Programmable Building Block Toys Typical Distributors
- 14.3 Programmable Building Block Toys Typical Customers

15 RESEARCH FINDINGS AND CONCLUSION

16 APPENDIX

- 16.1 Methodology
- 16.2 Research Process and Data Source
- 16.3 Disclaimer

List Of Tables

LIST OF TABLES

- Table 1. Global Programmable Building Block Toys Consumption Value by Type, (USD Million), 2021 & 2025 & 2032
- Table 2. Global Programmable Building Block Toys Consumption Value by Programming Method, (USD Million), 2021 & 2025 & 2032
- Table 3. Global Programmable Building Block Toys Consumption Value by Product Type, (USD Million), 2021 & 2025 & 2032
- Table 4. Global Programmable Building Block Toys Consumption Value by Application, (USD Million), 2021 & 2025 & 2032
- Table 5. LEGO Basic Information, Manufacturing Base and Competitors
- Table 6. LEGO Major Business
- Table 7. LEGO Programmable Building Block Toys Product and Services
- Table 8. LEGO Programmable Building Block Toys Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)
- Table 9. LEGO Recent Developments/Updates
- Table 10. Toyster Brinquedos Basic Information, Manufacturing Base and Competitors
- Table 11. Toyster Brinquedos Major Business
- Table 12. Toyster Brinquedos Programmable Building Block Toys Product and Services
- Table 13. Toyster Brinquedos Programmable Building Block Toys Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)
- Table 14. Toyster Brinquedos Recent Developments/Updates
- Table 15. Skillmatics Basic Information, Manufacturing Base and Competitors
- Table 16. Skillmatics Major Business
- Table 17. Skillmatics Programmable Building Block Toys Product and Services
- Table 18. Skillmatics Programmable Building Block Toys Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)
- Table 19. Skillmatics Recent Developments/Updates
- Table 20. Magformers Basic Information, Manufacturing Base and Competitors
- Table 21. Magformers Major Business
- Table 22. Magformers Programmable Building Block Toys Product and Services
- Table 23. Magformers Programmable Building Block Toys Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)
- Table 24. Magformers Recent Developments/Updates

Table 25. Woma Basic Information, Manufacturing Base and Competitors

Table 26. Woma Major Business

Table 27. Woma Programmable Building Block Toys Product and Services

Table 28. Woma Programmable Building Block Toys Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 29. Woma Recent Developments/Updates

Table 30. Makeblock Basic Information, Manufacturing Base and Competitors

Table 31. Makeblock Major Business

Table 32. Makeblock Programmable Building Block Toys Product and Services

Table 33. Makeblock Programmable Building Block Toys Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 34. Makeblock Recent Developments/Updates

Table 35. Fischertechnik Basic Information, Manufacturing Base and Competitors

Table 36. Fischertechnik Major Business

Table 37. Fischertechnik Programmable Building Block Toys Product and Services

Table 38. Fischertechnik Programmable Building Block Toys Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 39. Fischertechnik Recent Developments/Updates

Table 40. Modular Robotics Basic Information, Manufacturing Base and Competitors

Table 41. Modular Robotics Major Business

Table 42. Modular Robotics Programmable Building Block Toys Product and Services

Table 43. Modular Robotics Programmable Building Block Toys Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 44. Modular Robotics Recent Developments/Updates

Table 45. Sphero Basic Information, Manufacturing Base and Competitors

Table 46. Sphero Major Business

Table 47. Sphero Programmable Building Block Toys Product and Services

Table 48. Sphero Programmable Building Block Toys Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 49. Sphero Recent Developments/Updates

Table 50. Xiaomi Basic Information, Manufacturing Base and Competitors

Table 51. Xiaomi Major Business

Table 52. Xiaomi Programmable Building Block Toys Product and Services

Table 53. Xiaomi Programmable Building Block Toys Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 54. Xiaomi Recent Developments/Updates

Table 55. Global Programmable Building Block Toys Sales Quantity by Manufacturer (2021-2026) & (K Units)

Table 56. Global Programmable Building Block Toys Revenue by Manufacturer (2021-2026) & (USD Million)

Table 57. Global Programmable Building Block Toys Average Price by Manufacturer (2021-2026) & (US\$/Unit)

Table 58. Market Position of Manufacturers in Programmable Building Block Toys, (Tier 1, Tier 2, and Tier 3), Based on Revenue in 2025

Table 59. Head Office and Programmable Building Block Toys Production Site of Key Manufacturer

Table 60. Programmable Building Block Toys Market: Company Product Type Footprint

Table 61. Programmable Building Block Toys Market: Company Product Application Footprint

Table 62. Programmable Building Block Toys New Market Entrants and Barriers to Market Entry

Table 63. Programmable Building Block Toys Mergers, Acquisition, Agreements, and Collaborations

Table 64. Global Programmable Building Block Toys Consumption Value by Region (2021-2025-2032) & (USD Million) & CAGR

Table 65. Global Programmable Building Block Toys Sales Quantity by Region (2021-2026) & (K Units)

Table 66. Global Programmable Building Block Toys Sales Quantity by Region (2027-2032) & (K Units)

Table 67. Global Programmable Building Block Toys Consumption Value by Region (2021-2026) & (USD Million)

Table 68. Global Programmable Building Block Toys Consumption Value by Region (2027-2032) & (USD Million)

Table 69. Global Programmable Building Block Toys Average Price by Region (2021-2026) & (US\$/Unit)

Table 70. Global Programmable Building Block Toys Average Price by Region (2027-2032) & (US\$/Unit)

Table 71. Global Programmable Building Block Toys Sales Quantity by Type (2021-2026) & (K Units)

Table 72. Global Programmable Building Block Toys Sales Quantity by Type (2027-2032) & (K Units)

Table 73. Global Programmable Building Block Toys Consumption Value by Type (2021-2026) & (USD Million)

Table 74. Global Programmable Building Block Toys Consumption Value by Type (2027-2032) & (USD Million)

Table 75. Global Programmable Building Block Toys Average Price by Type
(2021-2026) & (US\$/Unit)

Table 76. Global Programmable Building Block Toys Average Price by Type
(2027-2032) & (US\$/Unit)

Table 77. Global Programmable Building Block Toys Sales Quantity by Application
(2021-2026) & (K Units)

Table 78. Global Programmable Building Block Toys Sales Quantity by Application
(2027-2032) & (K Units)

Table 79. Global Programmable Building Block Toys Consumption Value by Application
(2021-2026) & (USD Million)

Table 80. Global Programmable Building Block Toys Consumption Value by Application
(2027-2032) & (USD Million)

Table 81. Global Programmable Building Block Toys Average Price by Application
(2021-2026) & (US\$/Unit)

Table 82. Global Programmable Building Block Toys Average Price by Application
(2027-2032) & (US\$/Unit)

Table 83. North America Programmable Building Block Toys Sales Quantity by Type
(2021-2026) & (K Units)

Table 84. North America Programmable Building Block Toys Sales Quantity by Type
(2027-2032) & (K Units)

Table 85. North America Programmable Building Block Toys Sales Quantity by
Application (2021-2026) & (K Units)

Table 86. North America Programmable Building Block Toys Sales Quantity by
Application (2027-2032) & (K Units)

Table 87. North America Programmable Building Block Toys Sales Quantity by Country
(2021-2026) & (K Units)

Table 88. North America Programmable Building Block Toys Sales Quantity by Country
(2027-2032) & (K Units)

Table 89. North America Programmable Building Block Toys Consumption Value by
Country (2021-2026) & (USD Million)

Table 90. North America Programmable Building Block Toys Consumption Value by
Country (2027-2032) & (USD Million)

Table 91. Europe Programmable Building Block Toys Sales Quantity by Type
(2021-2026) & (K Units)

Table 92. Europe Programmable Building Block Toys Sales Quantity by Type
(2027-2032) & (K Units)

Table 93. Europe Programmable Building Block Toys Sales Quantity by Application
(2021-2026) & (K Units)

Table 94. Europe Programmable Building Block Toys Sales Quantity by Application

(2027-2032) & (K Units)

Table 95. Europe Programmable Building Block Toys Sales Quantity by Country
(2021-2026) & (K Units)

Table 96. Europe Programmable Building Block Toys Sales Quantity by Country
(2027-2032) & (K Units)

Table 97. Europe Programmable Building Block Toys Consumption Value by Country
(2021-2026) & (USD Million)

Table 98. Europe Programmable Building Block Toys Consumption Value by Country
(2027-2032) & (USD Million)

Table 99. Asia-Pacific Programmable Building Block Toys Sales Quantity by Type
(2021-2026) & (K Units)

Table 100. Asia-Pacific Programmable Building Block Toys Sales Quantity by Type
(2027-2032) & (K Units)

Table 101. Asia-Pacific Programmable Building Block Toys Sales Quantity by
Application (2021-2026) & (K Units)

Table 102. Asia-Pacific Programmable Building Block Toys Sales Quantity by
Application (2027-2032) & (K Units)

Table 103. Asia-Pacific Programmable Building Block Toys Sales Quantity by Region
(2021-2026) & (K Units)

Table 104. Asia-Pacific Programmable Building Block Toys Sales Quantity by Region
(2027-2032) & (K Units)

Table 105. Asia-Pacific Programmable Building Block Toys Consumption Value by
Region (2021-2026) & (USD Million)

Table 106. Asia-Pacific Programmable Building Block Toys Consumption Value by
Region (2027-2032) & (USD Million)

Table 107. South America Programmable Building Block Toys Sales Quantity by Type
(2021-2026) & (K Units)

Table 108. South America Programmable Building Block Toys Sales Quantity by Type
(2027-2032) & (K Units)

Table 109. South America Programmable Building Block Toys Sales Quantity by
Application (2021-2026) & (K Units)

Table 110. South America Programmable Building Block Toys Sales Quantity by
Application (2027-2032) & (K Units)

Table 111. South America Programmable Building Block Toys Sales Quantity by
Country (2021-2026) & (K Units)

Table 112. South America Programmable Building Block Toys Sales Quantity by
Country (2027-2032) & (K Units)

Table 113. South America Programmable Building Block Toys Consumption Value by
Country (2021-2026) & (USD Million)

Table 114. South America Programmable Building Block Toys Consumption Value by Country (2027-2032) & (USD Million)

Table 115. Middle East & Africa Programmable Building Block Toys Sales Quantity by Type (2021-2026) & (K Units)

Table 116. Middle East & Africa Programmable Building Block Toys Sales Quantity by Type (2027-2032) & (K Units)

Table 117. Middle East & Africa Programmable Building Block Toys Sales Quantity by Application (2021-2026) & (K Units)

Table 118. Middle East & Africa Programmable Building Block Toys Sales Quantity by Application (2027-2032) & (K Units)

Table 119. Middle East & Africa Programmable Building Block Toys Sales Quantity by Country (2021-2026) & (K Units)

Table 120. Middle East & Africa Programmable Building Block Toys Sales Quantity by Country (2027-2032) & (K Units)

Table 121. Middle East & Africa Programmable Building Block Toys Consumption Value by Country (2021-2026) & (USD Million)

Table 122. Middle East & Africa Programmable Building Block Toys Consumption Value by Country (2027-2032) & (USD Million)

Table 123. Programmable Building Block Toys Raw Material

Table 124. Key Manufacturers of Programmable Building Block Toys Raw Materials

Table 125. Programmable Building Block Toys Typical Distributors

Table 126. Programmable Building Block Toys Typical Customers

List Of Figures

LIST OF FIGURES

Figure 1. Programmable Building Block Toys Picture

Figure 2. Global Programmable Building Block Toys Revenue by Type, (USD Million), 2021 & 2025 & 2032

Figure 3. Global Programmable Building Block Toys Revenue Market Share by Type in 2025

Figure 4. Scratch Programmable Toys Examples

Figure 5. Python Programmable Toys Examples

Figure 6. Global Programmable Building Block Toys Revenue by Programming Method, (USD Million), 2021 & 2025 & 2032

Figure 7. Global Programmable Building Block Toys Revenue Market Share by Programming Method in 2025

Figure 8. Graphical Programming Block Toys Examples

Figure 9. Text-Based Programming Block Toys Examples

Figure 10. Hybrid Programming Block Toys Examples

Figure 11. Global Programmable Building Block Toys Revenue by Product Type, (USD Million), 2021 & 2025 & 2032

Figure 12. Global Programmable Building Block Toys Revenue Market Share by Product Type in 2025

Figure 13. Robot Building Block Kits Examples

Figure 14. Smart Electronic Building Blocks Examples

Figure 15. Educational Coding Brick Systems Examples

Figure 16. Global Programmable Building Block Toys Consumption Value by Application, (USD Million), 2021 & 2025 & 2032

Figure 17. Global Programmable Building Block Toys Revenue Market Share by Application in 2025

Figure 18. Children Aged 0-6 Years Old Examples

Figure 19. Children Aged 7-12 Years Old Examples

Figure 20. Children Aged 12-16 Years Old Examples

Figure 21. Global Programmable Building Block Toys Consumption Value, (USD Million): 2021 & 2025 & 2032

Figure 22. Global Programmable Building Block Toys Consumption Value and Forecast (2021-2032) & (USD Million)

Figure 23. Global Programmable Building Block Toys Sales Quantity (2021-2032) & (K Units)

Figure 24. Global Programmable Building Block Toys Price (2021-2032) & (US\$/Unit)

Figure 25. Global Programmable Building Block Toys Sales Quantity Market Share by Manufacturer in 2025

Figure 26. Global Programmable Building Block Toys Revenue Market Share by Manufacturer in 2025

Figure 27. Producer Shipments of Programmable Building Block Toys by Manufacturer Sales (\$MM) and Market Share (%): 2025

Figure 28. Top 3 Programmable Building Block Toys Manufacturer (Revenue) Market Share in 2025

Figure 29. Top 6 Programmable Building Block Toys Manufacturer (Revenue) Market Share in 2025

Figure 30. Global Programmable Building Block Toys Sales Quantity Market Share by Region (2021-2032)

Figure 31. Global Programmable Building Block Toys Consumption Value Market Share by Region (2021-2032)

Figure 32. North America Programmable Building Block Toys Consumption Value (2021-2032) & (USD Million)

Figure 33. Europe Programmable Building Block Toys Consumption Value (2021-2032) & (USD Million)

Figure 34. Asia-Pacific Programmable Building Block Toys Consumption Value (2021-2032) & (USD Million)

Figure 35. South America Programmable Building Block Toys Consumption Value (2021-2032) & (USD Million)

Figure 36. Middle East & Africa Programmable Building Block Toys Consumption Value (2021-2032) & (USD Million)

Figure 37. Global Programmable Building Block Toys Sales Quantity Market Share by Type (2021-2032)

Figure 38. Global Programmable Building Block Toys Consumption Value Market Share by Type (2021-2032)

Figure 39. Global Programmable Building Block Toys Average Price by Type (2021-2032) & (US\$/Unit)

Figure 40. Global Programmable Building Block Toys Sales Quantity Market Share by Application (2021-2032)

Figure 41. Global Programmable Building Block Toys Revenue Market Share by Application (2021-2032)

Figure 42. Global Programmable Building Block Toys Average Price by Application (2021-2032) & (US\$/Unit)

Figure 43. North America Programmable Building Block Toys Sales Quantity Market Share by Type (2021-2032)

Figure 44. North America Programmable Building Block Toys Sales Quantity Market

Share by Application (2021-2032)

Figure 45. North America Programmable Building Block Toys Sales Quantity Market

Share by Country (2021-2032)

Figure 46. North America Programmable Building Block Toys Consumption Value

Market Share by Country (2021-2032)

Figure 47. United States Programmable Building Block Toys Consumption Value
(2021-2032) & (USD Million)

Figure 48. Canada Programmable Building Block Toys Consumption Value (2021-2032)
& (USD Million)

Figure 49. Mexico Programmable Building Block Toys Consumption Value (2021-2032)
& (USD Million)

Figure 50. Europe Programmable Building Block Toys Sales Quantity Market Share by
Type (2021-2032)

Figure 51. Europe Programmable Building Block Toys Sales Quantity Market Share by
Application (2021-2032)

Figure 52. Europe Programmable Building Block Toys Sales Quantity Market Share by
Country (2021-2032)

Figure 53. Europe Programmable Building Block Toys Consumption Value Market
Share by Country (2021-2032)

Figure 54. Germany Programmable Building Block Toys Consumption Value
(2021-2032) & (USD Million)

Figure 55. France Programmable Building Block Toys Consumption Value (2021-2032)
& (USD Million)

Figure 56. United Kingdom Programmable Building Block Toys Consumption Value
(2021-2032) & (USD Million)

Figure 57. Russia Programmable Building Block Toys Consumption Value (2021-2032)
& (USD Million)

Figure 58. Italy Programmable Building Block Toys Consumption Value (2021-2032) &
(USD Million)

Figure 59. Asia-Pacific Programmable Building Block Toys Sales Quantity Market Share
by Type (2021-2032)

Figure 60. Asia-Pacific Programmable Building Block Toys Sales Quantity Market Share
by Application (2021-2032)

Figure 61. Asia-Pacific Programmable Building Block Toys Sales Quantity Market Share
by Region (2021-2032)

Figure 62. Asia-Pacific Programmable Building Block Toys Consumption Value Market
Share by Region (2021-2032)

Figure 63. China Programmable Building Block Toys Consumption Value (2021-2032) &
(USD Million)

Figure 64. Japan Programmable Building Block Toys Consumption Value (2021-2032) & (USD Million)

Figure 65. South Korea Programmable Building Block Toys Consumption Value (2021-2032) & (USD Million)

Figure 66. India Programmable Building Block Toys Consumption Value (2021-2032) & (USD Million)

Figure 67. Southeast Asia Programmable Building Block Toys Consumption Value (2021-2032) & (USD Million)

Figure 68. Australia Programmable Building Block Toys Consumption Value (2021-2032) & (USD Million)

Figure 69. South America Programmable Building Block Toys Sales Quantity Market Share by Type (2021-2032)

Figure 70. South America Programmable Building Block Toys Sales Quantity Market Share by Application (2021-2032)

Figure 71. South America Programmable Building Block Toys Sales Quantity Market Share by Country (2021-2032)

Figure 72. South America Programmable Building Block Toys Consumption Value Market Share by Country (2021-2032)

Figure 73. Brazil Programmable Building Block Toys Consumption Value (2021-2032) & (USD Million)

Figure 74. Argentina Programmable Building Block Toys Consumption Value (2021-2032) & (USD Million)

Figure 75. Middle East & Africa Programmable Building Block Toys Sales Quantity Market Share by Type (2021-2032)

Figure 76. Middle East & Africa Programmable Building Block Toys Sales Quantity Market Share by Application (2021-2032)

Figure 77. Middle East & Africa Programmable Building Block Toys Sales Quantity Market Share by Country (2021-2032)

Figure 78. Middle East & Africa Programmable Building Block Toys Consumption Value Market Share by Country (2021-2032)

Figure 79. Turkey Programmable Building Block Toys Consumption Value (2021-2032) & (USD Million)

Figure 80. Egypt Programmable Building Block Toys Consumption Value (2021-2032) & (USD Million)

Figure 81. Saudi Arabia Programmable Building Block Toys Consumption Value (2021-2032) & (USD Million)

Figure 82. South Africa Programmable Building Block Toys Consumption Value (2021-2032) & (USD Million)

Figure 83. Programmable Building Block Toys Market Drivers

- Figure 84. Programmable Building Block Toys Market Restraints
- Figure 85. Programmable Building Block Toys Market Trends
- Figure 86. Porters Five Forces Analysis
- Figure 87. Manufacturing Cost Structure Analysis of Programmable Building Block Toys in 2025
- Figure 88. Manufacturing Process Analysis of Programmable Building Block Toys
- Figure 89. Programmable Building Block Toys Industrial Chain
- Figure 90. Sales Channel: Direct to End-User vs Distributors
- Figure 91. Direct Channel Pros & Cons
- Figure 92. Indirect Channel Pros & Cons
- Figure 93. Methodology
- Figure 94. Research Process and Data Source

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