

Global Robot Manipulation Dataset Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Robot Manipulation Dataset market size is expected to reach \$ 9150 million by 2032, rising at a market growth of 35.9% CAGR during the forecast period (2026-2032).

With the development of large-scale models and robotics, embodied AI gives artificial intelligence systems a physical form to interact with and learn from their environment. From action programming to human teleoperation, from robotic arms to dexterous hands, embodied AI is gradually establishing a development paradigm at both the hardware and software levels. Drawing inspiration from the development path of autonomous vehicles, data is equally crucial for embodied AI. Data not only serves as 'fuel' driving the agent's perception and understanding of the environment, but also helps build environmental models and predict changes through multimodal sensors (such as vision, hearing, and touch). This enables the agent to perform contextual awareness and predictive maintenance based on historical data, thereby making better decisions. Building high-quality, diverse perception datasets is an indispensable foundation. These datasets not only provide rich material for algorithm training but also serve as benchmarks for evaluating embodied performance. Data is key to driving rapid breakthroughs and practical applications in embodied AI technology. High-quality datasets can drive the agent's perception and understanding of the environment, accelerate the training and deployment of embodied AI models, and help robots effectively complete complex tasks. Unlike large language models that can utilize massive amounts of internet information as training data, embodied intelligence models used by robots lack readily available data. They require significant time and resources for practical robot operation or simulation to collect heterogeneous data from multiple sources, including visual, tactile, force, motion trajectory, and robot body state data. Standardized and validated datasets have become a necessity in the embodied

intelligence industry. Currently, embodied intelligence bodies take many forms, with diverse application scenarios, leading to a more varied demand for embodied intelligence training data. Some datasets in the industry still focus primarily on specific robots, scenarios, and skills, lacking overall versatility. Therefore, constructing high-quality, diverse perception datasets is an indispensable foundation. These datasets not only provide rich material for algorithm training but also serve as benchmarks for evaluating embodied performance. It is projected that nearly 200 million high-quality, high-dimensional embodied intelligence training datasets will be produced annually by 2024, with the cost of capturing one hour of multi-model robot data for autonomous vehicles reaching \$180. The gross margin for global robot operation datasets is projected to be around 60% in 2025. By 2026, the training data volume of leading algorithm companies will inevitably exceed one million hours. The upstream of the embodied intelligence industry chain consists of core components, sensors, batteries, and energy systems; the downstream consists of end-application companies in intelligent manufacturing, autonomous driving, and healthcare. The midstream consists of basic models, cloud platforms and data, and software development. Data needs to collaborate with large models and high computing power.

High-quality data is extremely scarce due to the high cost and difficulty of robot data collection. Embodied intelligence also faces the challenge of insufficient training data; high-quality data is a hurdle that embodied intelligence companies worldwide struggle to overcome. Large language models rely on training with vast amounts of existing internet data to achieve intelligent emergence. If embodied intelligence follows a similar logic, it will require an enormous amount of data. Currently, the industry lacks high-quality embodied interaction data. Enabling robots to achieve accurate understanding and decision-making in complex, dynamic, and unstructured real-world scenarios is a major challenge. Embodied intelligence requires high-dimensional, continuous, and dynamic scene data, but real-device data collection is extremely costly, and simulation data cannot fully bridge the gap between 'virtual and reality'. Existing embodied intelligence robot datasets generally still have several problems: limited sensory modalities, insufficient task complexity, and a lack of standardization. Limited sensory modalities: over-reliance on visual modalities and a lack of multimodal fusion; severe shortage of tactile and force feedback data. Tactile feedback is crucial for precise robot manipulation, but existing datasets generally lack this type of information. Insufficient task complexity: Most datasets focus on simple actions in a single scenario, such as basic operations like grasping, placing, and pushing. These tasks typically require only a single decision or short-range operation, lacking coverage of complex logical reasoning, multi-step collaboration, and goal-related tasks. Lack of standardization: This includes inconsistent data formats, inconsistent evaluation metrics, vague task

definitions, and differences in annotation methods, severely limiting the algorithm's generalization ability across scenarios, tasks, and robot types.

This report studies the global Robot Manipulation Dataset demand, key companies, and key regions.

This report is a detailed and comprehensive analysis of the world market for Robot Manipulation Dataset, 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 Robot Manipulation Dataset that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Robot Manipulation Dataset total market, 2021-2032, (USD Million)

Global Robot Manipulation Dataset total market by region & country, CAGR, 2021-2032, (USD Million)

U.S. VS China: Robot Manipulation Dataset total market, key domestic companies, and share, (USD Million)

Global Robot Manipulation Dataset revenue by player, revenue and market share 2021-2026, (USD Million)

Global Robot Manipulation Dataset total market by Type, CAGR, 2021-2032, (USD Million)

Global Robot Manipulation Dataset total market by Application, CAGR, 2021-2032, (USD Million)

This report profiles major players in the global Robot Manipulation Dataset market based on the following parameters - company overview, revenue, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include Google?Open X-Embodiment?, Figure AI, NVIDIA, SignIQ La, Labellerr, DROID Dataset, DataMesh Robotics, Roboflow, Bright Data Ltd., PaXiniTech, 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 Robot Manipulation Dataset market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), by player, by regions, 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 Robot Manipulation Dataset Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Robot Manipulation Dataset Market, Segmentation by Type:

Real Machine Data

Simulation Data

Global Robot Manipulation Dataset Market, Segmentation by Business Model:

Data Set Sales

Data Value-added Services (Data Collection)

Global Robot Manipulation Dataset Market, Segmentation by Fee:

Open Source

Paid

Global Robot Manipulation Dataset Market, Segmentation by Application:

Logistics Scenarios

Life Service Scenarios

3C Factory;

Hotel Service

Fast-moving Consumer Goods Scenarios

Automobile Factory

Companies Profiled:

Google?Open X-Embodiment?

Figure AI

NVIDIA

SignIQ La

Labellerr

DROID Dataset

DataMesh Robotics

Roboflow

Bright Data Ltd.

PaXiniTech

AgiBot

X-humanoid

Dobot Robotics

LEJU(SHENZHEN) ROBOTICS CO.LTD

X Square Robot

Beijing Galbot Co, Ltd.

Fourier

IO-AI

Peng Cheng Laboratory

Unitree Robotics

Appen

GalaXea AI

Beijing Galbot Co.,Ltd.

RealMan Group

Key Questions Answered

1. How big is the global Robot Manipulation Dataset market?
2. What is the demand of the global Robot Manipulation Dataset market?
3. What is the year over year growth of the global Robot Manipulation Dataset market?
4. What is the total value of the global Robot Manipulation Dataset market?
5. Who are the Major Players in the global Robot Manipulation Dataset market?
6. What are the growth factors driving the market demand?

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