

Global Robot Manipulation Dataset Market Growth (Status and Outlook) 2026-2032

<https://marketpublishers.com/r/G4A1712772DAEN.html>

Date: May 2026

Pages: 149

Price: US\$ 3,660.00 (Single User License)

ID: G4A1712772DAEN

Abstracts

The global Robot Manipulation Dataset market size is predicted to grow from US\$ 1008 million in 2025 to US\$ 9595 million in 2032; it is expected to grow at a CAGR of 38.2% from 2026 to 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.

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

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

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for Robot Manipulation Dataset and breaks down the forecast by Type, 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 Robot Manipulation Dataset.

This report presents a comprehensive overview, market shares, and growth opportunities of Robot Manipulation Dataset market by product type, application, key players and key regions and countries.

Segmentation by Type:

Real Machine Data

Simulation Data

Segmentation by Business Model:

Data Set Sales

Data Value-added Services (Data Collection)

Segmentation by Fee:

Open Source

Paid

Segmentation by Application:

Logistics Scenarios

Life Service Scenarios

3C Factory;

Hotel Service

Fast-moving Consumer Goods Scenarios

Automobile Factory

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 analyzing the company's coverage, product portfolio, its market penetration.

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

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