

# Global Robotic Datasets Market 2026 by Company, Regions, Type and Application, Forecast to 2032

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## Abstracts

According to our (Global Info Research) latest study, the global Robotic Datasets market size was valued at US\$ 1060 million in 2025 and is forecast to a readjusted size of US\$ 9150 million by 2032 with a CAGR of 35.9% during review period.

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 of global robotics datasets is projected to be approximately 60% by 2025. By 2026, the training data scale 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 is a detailed and comprehensive analysis for global Robotic Datasets market. Both quantitative and qualitative analyses are presented by company, 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 Robotic Datasets market size and forecasts, in consumption value (\$ Million), 2021-2032

Global Robotic Datasets market size and forecasts by region and country, in consumption value (\$ Million), 2021-2032

Global Robotic Datasets market size and forecasts, by Type and by Application, in consumption value (\$ Million), 2021-2032

Global Robotic Datasets market shares of main players, in revenue (\$ Million), 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 Robotic Datasets

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 Robotic Datasets 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.

## Market segmentation

Robotic Datasets 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. This analysis can help you expand your business by targeting qualified niche markets.

### Market segment by Type

Real Machine Data

Simulation Data

### Market segment by Business Model

Data Set Sales

Data Value-added Services (Data Collection)

### Market segment by Fee

Open Source

Paid

### Market segment by Application

Logistics Scenarios

Life Service Scenarios

3C Factory;

Hotel Service

Fast-moving Consumer Goods Scenarios

Automobile Factory

Market segment by players, this report covers

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

Market segment by regions, regional analysis covers

North America (United States, Canada and Mexico)

Europe (Germany, France, UK, Russia, Italy and Rest of Europe)

Asia-Pacific (China, Japan, South Korea, India, Southeast Asia and Rest of Asia-Pacific)

South America (Brazil, Rest of South America)

Middle East & Africa (Turkey, Saudi Arabia, UAE, Rest of Middle East & Africa)

**The content of the study subjects, includes a total of 13 chapters:**

Chapter 1, to describe Robotic Datasets product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top players of Robotic Datasets, with revenue, gross margin, and global market share of Robotic Datasets from 2021 to 2026.

Chapter 3, the Robotic Datasets competitive situation, revenue, and global market share of top players are analyzed emphatically by landscape contrast.

Chapter 4 and 5, to segment the market size by Type and by Application, with consumption value and growth rate by Type, by Application, from 2021 to 2032.

Chapter 6, 7, 8, 9, and 10, to break the market size data at the country level, with revenue and market share for key countries in the world, from 2021 to 2026. and Robotic Datasets market forecast, by regions, by Type and by Application, with consumption value, from 2027 to 2032.

Chapter 11, market dynamics, drivers, restraints, trends, Porters Five Forces analysis.

Chapter 12, the key raw materials and key suppliers, and industry chain of Robotic Datasets.

Chapter 13, to describe Robotic Datasets research findings and conclusion.

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