

Global Tactile Data Acquisition Service Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Tactile Data Acquisition Service market size is expected to reach \$ 3147 million by 2032, rising at a market growth of 20.7% CAGR during the forecast period (2026-2032).

Tactile data acquisition services are specialized data services that capture, synchronize, process, and structure tactile information—centered on physical contact between robots, objects, human bodies, and the environment—to produce deliverable datasets. This research primarily covers a service ecosystem comprising tactile sensors, force/torque sensors, vision-based tactile devices, robotic dexterous hands or grippers, teleoperation systems, acquisition software, and data processing infrastructure. Core data includes contact pressure, normal force, shear force, deformation, slip, vibration, surface texture, contact geometry, temperature, and tactile images; high-end systems further synchronize the acquisition of tactile information with visual data, robot joint states, motion trajectories, and operational commands.

Key Findings

Tactile data has become critical for dexterous manipulation.

Multimodal data acquisition is replacing single-mode force measurement.

Embodied AI is driving the demand for real-world interaction data.

High-frequency data acquisition supports training for complex contact-based manipulation.

Industrial robotics remains the primary commercial application scenario.

Industry Trends

Tactile data acquisition services are evolving from sensor-centric measurement operations into data infrastructure designed for physical interaction. Early tactile systems primarily recorded pressure, force, or contact distribution for engineering testing and quality inspection. With the rise of embodied AI, the market now demands synchronized data—encompassing tactile, visual, proprioceptive, and action states—that can feed directly into robot learning pipelines. Consequently, the value of tactile data has expanded beyond measurement and analysis to include model training, policy learning, manipulation assessment, and automated recovery.

Market Dynamics

Driving Factors

The primary growth driver for tactile data acquisition services is the increasing demand for robots capable of complex contact-based manipulation. Tasks such as grasping, insertion, fastening, pressing, manipulating flexible objects, and detecting slippage are difficult to perform reliably using vision alone; robots require additional information regarding contact occurrence, direction, force magnitude, and material deformation. Tactile information becomes particularly crucial when target positioning is imprecise, vision is obstructed, or when dealing with transparent, flexible, or complex-structured objects. XELA views industrial tasks like insertion and assembly as key applications for tactile sensing, utilizing contact and force feedback to help robots detect deviations and adjust their pose and manipulation force in real-time.

Limiting Factors

The production costs and engineering complexity associated with high-quality, real-world tactile data remain significant barriers to market expansion. Unlike image or text data, tactile data must be generated through physical contact between sensors and real objects; thus, data acquisition efficiency is constrained by factors such as robot hardware, human operators, task execution speed, and sensor durability. High-

resolution systems also require rigorous calibration and precise temporal synchronization with robot state and visual data. Data formats vary significantly across tactile technologies: vision-based tactile sensors typically generate image-like contact data, force arrays primarily output multi-dimensional force information, and electronic skins produce high-density spatiotemporal signals. This heterogeneity increases the costs associated with data cleaning and format standardization.

Market Opportunities

Training-grade tactile datasets designed for embodied foundation models, dexterous manipulation models, and humanoid robots represent the market opportunity with the greatest future potential. As robots evolve from simple pick-and-place operations to general-purpose manipulation, tactile sensing provides crucial information—such as contact states, friction, material properties, deformation, and slippage—that cameras struggle to reliably assess. Consequently, integrating tactile data with visual data, proprioceptive states, language instructions, and motion trajectories into a unified dataset offers significantly higher training value than isolated sensor recordings.

Industry Risks and Challenges

A core long-term challenge for the industry is establishing data standards that are reusable across diverse tactile technologies and robot platforms. Tactile data varies widely in terms of sensor form factor, force range, taxel density, sampling frequency, coordinate systems, contact materials, and calibration methods; this makes cross-platform data integration and joint model training significantly more complex than handling traditional visual data. Data quality is another critical issue, as repeated physical contact can lead to sensor drift, wear, changes in frictional conditions, and reduced trajectory repeatability. For AI training, simply increasing data volume does not guarantee improved model capabilities; factors such as task coverage, the diversity of contact scenarios, the accuracy of force calibration, and the quality of motion label synchronization are equally important. Furthermore, adapting tactile input for multimodal foundation models remains in the exploratory stage, with various technical approaches emerging—ranging from raw signals and tactile images to processed force vectors and learned latent space representations. Moving forward, service providers must continuously balance data precision, acquisition efficiency, hardware reliability, and data costs.

Value Chain Analysis

The upstream segment of the tactile data acquisition service value chain comprises tactile sensing technologies, force/torque sensors, vision-based tactile sensors, electronic skin, robotic dexterous hands and grippers, data acquisition electronics, cameras, motion capture equipment, edge computing modules, teleoperation hardware, and data storage resources. These foundational components determine the types of physical information that can be captured and set the technical upper limits of the resulting datasets.

Midstream service providers create value through activities such as experimental design, object and task selection, robotic or manual operation, multimodal synchronization, sensor calibration, data cleaning, annotation, trajectory segmentation, quality control, and dataset management and delivery. The market is shifting from pure hardware sales toward a combined "hardware + software + data service" model. For instance, companies like Daimon have developed a product ecosystem encompassing vision-based tactile sensors, datasets, teleoperation data acquisition systems, and Data-as-a-Service (DaaS) offerings, while Pasini is simultaneously targeting the markets for multidimensional tactile hardware and embodied AI data clouds. Downstream customers further utilize this data for embodied foundation models, dexterous manipulation by humanoid and industrial robots, medical robotics, prosthetics and rehabilitation, service robots, and haptic research. Consequently, future value creation depends increasingly on factors such as the volume of effective interaction trajectories, multimodal completeness, annotation quality, data reproducibility, and seamless integration with model training workflows, rather than merely on the unit price of individual sensors.

Market Segment Analysis

Based on the number of synchronized haptic modalities, haptic data acquisition services can be categorized into: single-modal services (1 modality); basic multimodal services (2–3 modalities); advanced multimodal services (4–6 modalities); and full-modal haptic services (7 or more modalities). The market is shifting toward advanced multimodal capabilities because dexterous robots require not only the detection of contact but also the simultaneous identification of force direction and magnitude, slippage, surface texture, and object deformation.

Downstream Market Opportunities

Embodied AI and humanoid robotics represent the most strategically valuable downstream markets for haptic data acquisition services; haptic information enhances capabilities in dexterous grasping, fine manipulation, contact state assessment, and adaptation to unknown objects. Industrial manufacturing stands out as one of the sectors with the strongest commercialization foundations; tasks such as plugging/unplugging, assembly, connector handling, grinding, press-fitting, and flexible material handling often suffer from errors when relying solely on vision, whereas haptic feedback enables robots to achieve finer control.

Report Scope

This report studies the global Tactile Data Acquisition Service demand, key companies, and key regions.

This report is a detailed and comprehensive analysis of the world market for Tactile Data Acquisition Service, 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 Tactile Data Acquisition Service that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Tactile Data Acquisition Service total market, 2021-2032, (USD Million)

Global Tactile Data Acquisition Service total market by region & country, CAGR, 2021-2032, (USD Million)

U.S. VS China: Tactile Data Acquisition Service total market, key domestic companies, and share, (USD Million)

Global Tactile Data Acquisition Service revenue by player, revenue and market share 2021-2026, (USD Million)

Global Tactile Data Acquisition Service total market by Type, CAGR, 2021-2032, (USD Million)

Global Tactile Data Acquisition Service total market by Application, CAGR, 2021-2032, (USD Million)

This report profiles major players in the global Tactile Data Acquisition Service 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 GelSight, Tekscan, ATI Industrial Automation, Pressure Profile Systems, Shadow Robot, Touchlab, Tacterion, WEISS Robotics, OnRobot, PaXini Tech, 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 Tactile Data Acquisition Service 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 Tactile Data Acquisition Service Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Market Segmentation

Global Tactile Data Acquisition Service Market, Segmentation by Type:

Single-Modality Acquisition Platform (1 Modality)

Basic Multimodal Platform (2–3 Modalities)

Advanced Multimodal Platform (4–6 Modalities)

Full-Modality Acquisition Platform (?7 Modalities)

Global Tactile Data Acquisition Service Market, Segmentation by Tactile Sampling Frequency:

Low-Frequency Data Acquisition Platform

Standard Data Acquisition Platform

High-Frequency Data Acquisition Platform

Ultra-High-Frequency Data Acquisition Platform

Global Tactile Data Acquisition Service Market, Segmentation by Synchronization Delay:

Offline Synchronization Type

Near-Real-Time Synchronization Type

Real-Time Synchronization Type

Ultra-Low-Latency Synchronization Type

Global Tactile Data Acquisition Service Market, Segmentation by Application:

Embodied AI and Humanoid Robots

Automotive Manufacturing Industry

Consumer Electronics Industry

Logistics Industry

Healthcare Industry

Others

Companies Profiled:

GelSight

Tekscan

ATI Industrial Automation

Pressure Profile Systems

Shadow Robot

Touchlab

Tacterion

WEISS Robotics

OnRobot

PaXini Tech

Xense Robotics

Daimon Robotics

AgileTact

ViTai Robotics

SaiGan Technology

XELA Robotics

Touchence

Nitta

WACOH-TECH

Leprino

Key Questions Answered

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

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