

Global Robots and Dexterous Hand Operational Force Intelligent Testing Equipment Market Growth 2026-2032

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Abstracts

The global Robots and Dexterous Hand Operational Force Intelligent Testing Equipment market size is predicted to grow from US\$ 0.15 million in 2025 to US\$ 3.49 million in 2032; it is expected to grow at a CAGR of 15.6% from 2026 to 2032.

A dexterous hand is a high-degree-of-freedom robotic end effector that simulates the functions of a human hand. It represents a crucial research direction within the embodied intelligence industry chain and is often referred to as the 'last mile' in robotic applications. However, its high cost, susceptibility to damage, and significant engineering challenges have hampered the global robotics industry. The Dexterous Hand Full Operation Force Dynamic Detection Platform integrates multiple force sensing technologies, a six-axis collaborative robotic arm, and an intelligent control system. It enables precise dynamic detection of eight core operational forces in a dexterous hand, covering the performance evaluation needs of various dexterous hand movements. This device employs high-precision force sensors and real-time feedback technology to construct a dynamic detection system for the operational force implementation efficiency of a dexterous hand. It integrates core functional modules such as fingertip force, gripping force, and retrieval force, achieving quantitative evaluation of operational mechanical performance. Its static force detection accuracy error is $\pm 1\%FS$, dynamic force detection repeatability error is $\pm 1.5\%FS$, and response time is $\leq 10ms$. It achieves industry-leading levels in accuracy, speed, and reliability, solving the core bottlenecks of 'inaccurate, incomplete, and slow measurement' in the industrialization of dexterous hands. It is a Dexterous Hand Full Operation Force Dynamic Detection Platform. On December 22, 2025, Kailong High-Tech's intelligent detection equipment for dexterous hand manipulation force was launched for the first time. Downstream customers, including Wuxi Lingzhang Robotics Technology Co., Ltd.,

China Machinery Worldwide Certification & Inspection Co., Ltd., and Hubei Jingchu Humanoid Robotics Co., Ltd., have already established partnerships. It is estimated that 3 units of the Robots and Dexterous Hand Operational Force Intelligent Testing Equipment will be signed globally in 2025, with an average price of approximately US\$50,000 per unit and a gross profit margin of approximately 50%.

As robotics enters the era of 'embodied intelligence,' dexterous hands and tactile sensing technology have become core indicators for measuring a robot's actual operational capabilities. Intelligent force detection equipment enables robots to achieve force feedback, adaptive grasping, and flexible control in complex environments, thus attracting widespread attention in precision assembly in electronic manufacturing, collaborative production lines, human-robot collaboration scenarios, and medical surgical robots. Global manufacturing demands higher requirements for quality control, flexible production, and safe interaction of automated equipment, making force/torque sensing-based intelligent detection equipment an indispensable module in robot end-effector control systems. However, dexterous hand force detection technology still faces challenges in terms of cost, accuracy, and anti-interference. High-precision multi-degree-of-freedom force/torque sensors require high stability in complex environments, complex system integration, and adaptation to robot control algorithms. Furthermore, the cost and maintenance difficulty of detection equipment are higher than traditional sensors, which to some extent inhibits rapid penetration into the low-to-mid-end market. In addition, the lack of unified industry standards leads to poor compatibility between different brands, reducing downstream procurement efficiency. In conclusion, technological barriers, quality consistency, and supply chain stability will continue to be key risks restricting the industry's accelerated expansion. Downstream demand is expanding from traditional industrial automation to more personalized and high-precision application scenarios. High-value-added market segments, represented by collaborative dexterous hands, service robots, medical robots, and humanoid robots, are placing higher demands on the flexible force feedback capabilities of intelligent manipulative force detection equipment. This is driving product evolution towards high precision, multi-dimensional perception, real-time feedback, and the integration of intelligent algorithms. Simultaneously, as the integration of AI and vision technologies into robot operating systems matures, manipulative force detection equipment is upgrading from simple hardware components to intelligent sensing modules, becoming a core component of the robot system's perception layer.

LP Information, Inc. (LPI) ' newest research report, the 'Robots and Dexterous Hand Operational Force Intelligent Testing Equipment Industry Forecast' looks at past sales and reviews total world Robots and Dexterous Hand Operational Force Intelligent

Testing Equipment sales in 2025, providing a comprehensive analysis by region and market sector of projected Robots and Dexterous Hand Operational Force Intelligent Testing Equipment sales for 2026 through 2032. With Robots and Dexterous Hand Operational Force Intelligent Testing Equipment sales broken down by region, market sector and sub-sector, this report provides a detailed analysis in US\$ millions of the world Robots and Dexterous Hand Operational Force Intelligent Testing Equipment industry.

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

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for Robots and Dexterous Hand Operational Force Intelligent Testing Equipment 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 Robots and Dexterous Hand Operational Force Intelligent Testing Equipment.

This report presents a comprehensive overview, market shares, and growth opportunities of Robots and Dexterous Hand Operational Force Intelligent Testing Equipment market by product type, application, key manufacturers and key regions and countries.

Segmentation by Type:

Static Force Testing

Dynamic Force Testing

Segmentation by Equipment:

Embedded Module

Standalone Unit

Segmentation by Sales:

Direct Selling

Distribution

Segmentation by Application:

Industrial Robotics

Collaborative Robots

Humanoid Robots

Medical / Surgical Robotics

Others

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

Kailong High-Tech

Key Questions Addressed in this Report

What is the 10-year outlook for the global Robots and Dexterous Hand Operational Force Intelligent Testing Equipment market?

What factors are driving Robots and Dexterous Hand Operational Force Intelligent Testing Equipment market growth, globally and by region?

Which technologies are poised for the fastest growth by market and region?

How do Robots and Dexterous Hand Operational Force Intelligent Testing Equipment market opportunities vary by end market size?

How does Robots and Dexterous Hand Operational Force Intelligent Testing Equipment break out by Type, by Application?

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