

# Global Dexterous Hand Operational Force Intelligent Testing Equipment Supply, Demand and Key Producers, 2026-2032

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## Abstracts

The global Dexterous Hand Operational Force Intelligent Testing Equipment market size is expected to reach \$ 3.50 million by 2032, rising at a market growth of 14.6% CAGR during the forecast period (2026-2032).

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 robot applications. However, its high cost, susceptibility to damage, and significant engineering challenges have hampered the global robotics industry. The dexterous hand manipulator force intelligent detection equipment integrates multiple force sensing technologies, a six-axis collaborative robotic arm, and an intelligent control system. It can accurately and dynamically detect eight core manipulator forces of the dexterous hand, covering the performance evaluation needs of various dexterous hand movements. This equipment employs high-precision force sensors and real-time feedback technology to construct a dynamic detection system for the implementation efficiency of dexterous hand manipulator forces. It integrates core functional modules such as fingertip force, gripping force, and retrieval force, enabling quantitative evaluation of manipulator 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 an intelligent platform for comprehensive manipulator force detection of dexterous hands. On December 22, 2025, Kailong Hi-Tech launched its first intelligent testing equipment for dexterous hand manipulation force. Downstream clients, 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 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.

This report studies the global Dexterous Hand Operational Force Intelligent Testing Equipment production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Dexterous Hand Operational Force Intelligent Testing Equipment 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 Dexterous Hand Operational Force Intelligent Testing Equipment that contribute to its increasing demand across many markets.

### **Highlights and key features of the study**

Global Dexterous Hand Operational Force Intelligent Testing Equipment total production and demand, 2021-2032, (Units)

Global Dexterous Hand Operational Force Intelligent Testing Equipment total production value, 2021-2032, (USD Million)

Global Dexterous Hand Operational Force Intelligent Testing Equipment production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (Units), (based on production site)

Global Dexterous Hand Operational Force Intelligent Testing Equipment consumption by region & country, CAGR, 2021-2032 & (Units)

U.S. VS China: Dexterous Hand Operational Force Intelligent Testing Equipment domestic production, consumption, key domestic manufacturers and share

Global Dexterous Hand Operational Force Intelligent Testing Equipment production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (Units)

Global Dexterous Hand Operational Force Intelligent Testing Equipment production by Type, production, value, CAGR, 2021-2032, (USD Million) & (Units)

Global Dexterous Hand Operational Force Intelligent Testing Equipment production by Application, production, value, CAGR, 2021-2032, (USD Million) & (Units)

This report profiles key players in the global Dexterous Hand Operational Force Intelligent Testing Equipment market based on the following parameters - company overview, production, value, price, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study

include Kailong High-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 Dexterous Hand Operational Force Intelligent Testing Equipment market

### **Detailed Segmentation:**

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (Units) and average price (K US\$/Unit) by manufacturer, 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 Dexterous Hand Operational Force Intelligent Testing Equipment Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Dexterous Hand Operational Force Intelligent Testing Equipment Market, Segmentation by Type:

Static Force Testing

Dynamic Force Testing

Global Dexterous Hand Operational Force Intelligent Testing Equipment Market,  
Segmentation by Equipment:

Embedded Module

Standalone Unit

Global Dexterous Hand Operational Force Intelligent Testing Equipment Market,  
Segmentation by Sales:

Direct Selling

Distribution

Global Dexterous Hand Operational Force Intelligent Testing Equipment Market,  
Segmentation by Application:

Industrial Robotics

Collaborative Robots

Humanoid Robots

Medical / Surgical Robotics

Others

Companies Profiled:

Kailong High-Tech

**Key Questions Answered:**

1. How big is the global Dexterous Hand Operational Force Intelligent Testing Equipment market?
2. What is the demand of the global Dexterous Hand Operational Force Intelligent Testing Equipment market?
3. What is the year over year growth of the global Dexterous Hand Operational Force Intelligent Testing Equipment market?
4. What is the production and production value of the global Dexterous Hand Operational Force Intelligent Testing Equipment market?
5. Who are the key producers in the global Dexterous Hand Operational Force Intelligent Testing Equipment market?
6. What are the growth factors driving the market demand?

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