

Global Grip Force Sensor Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Grip Force Sensor market size is expected to reach \$ 13300 million by 2032, rising at a market growth of 14.6% CAGR during the forecast period (2026-2032).

In 2025, the global production of grip force sensor is estimated at 90 million units, with an average selling price of about US\$55 per unit, a gross profit margin of about 45%, and a single production line capacity of about 800,000 units per year. A grip force sensor is a core measuring element that converts the force generated by a human hand grasping or squeezing into a quantifiable electrical signal. The upstream of its industry chain mainly consists of suppliers of raw materials and core components such as metal elastomers, strain gauges, micro pressure sensing chips, and precision injection molded parts. The midstream comprises sensor manufacturing and packaging companies, responsible for designing, producing, and supplying finished products to downstream medical rehabilitation equipment manufacturers, sports equipment brands, and scientific research instrument companies, who then integrate and develop them into end products such as grip strength meters and rehabilitation assessment systems. Demand fundamentally stems from two main directions: first, the continuously growing demand for objective quantitative assessment in the healthcare field, such as precise tracking of patients' hand function recovery in hospital rehabilitation departments and early screening for sarcopenia in elderly care institutions; second, the professional drive in the fields of sports science and industrial design, such as monitoring athletes' grip strength training, assessing fitness enthusiasts' physical fitness, and verifying the ergonomics of consumer products.

The core growth of the global grip force sensor market is driven by multiple factors. First, the fundamental driving force is the rigid demand for objective quantitative assessment in the healthcare sector. With the increasing prevalence of

neurorehabilitation (such as hand function reconstruction after stroke), orthopedic rehabilitation, and early screening for sarcopenia in the elderly, the demand for grip strength sensors that can accurately track the progress of hand muscle strength recovery in hospital rehabilitation departments, health check centers, and elderly care institutions continues to grow. Second, specialized applications in sports science and occupational health are constantly expanding market boundaries. In scenarios such as physical fitness assessment of professional athletes, strength training monitoring for fitness enthusiasts, and ergonomic verification of industrial product design, grip strength data has become an important indicator for measuring physical fitness levels and workload. Third, continuous innovation in sensor technology has significantly improved product performance and user experience, evolving from traditional strain gauge sensors towards miniaturization, wireless connectivity, and high sensitivity. This has spurred the development of advanced systems integrating Bluetooth transmission and data analysis functions, making them more convenient for application in scientific research, education, and home health monitoring scenarios. Finally, the health management needs brought about by the aging population trend have also accelerated the popularization of portable, easy-to-use home grip strength devices, bringing grip strength measurement from professional institutions to the everyday consumer market.

This report studies the global Grip Force Sensor production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Grip Force Sensor 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 Grip Force Sensor that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Grip Force Sensor total production and demand, 2021-2032, (K Units)

Global Grip Force Sensor total production value, 2021-2032, (USD Million)

Global Grip Force Sensor production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (K Units), (based on production site)

Global Grip Force Sensor consumption by region & country, CAGR, 2021-2032 & (K Units)

U.S. VS China: Grip Force Sensor domestic production, consumption, key domestic manufacturers and share

Global Grip Force Sensor production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (K Units)

Global Grip Force Sensor production by Type, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

Global Grip Force Sensor production by Application, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

This report profiles key players in the global Grip Force Sensor 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 Biopac, iWorx Systems, Inc., ADInstruments, Hoggan Scientific, Loadcellsensor Technology Co., Limited, Forsentek, Cambridge Research Systems, Great Lakes NeuroTechnologies Inc, Vernier, DYSensor, 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 Grip Force Sensor market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (K Units) and average price (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 Grip Force Sensor Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Grip Force Sensor Market, Segmentation by Type:

Balloon Type

Handle Type

Global Grip Force Sensor Market, Segmentation by Signal Output Principle:

Analog Output Type

Digital Output Type

Global Grip Force Sensor Market, Segmentation by Measurement Dimensions:

Single-axis Force Sensor

Multi-axis Force Sensor

Global Grip Force Sensor Market, Segmentation by Application:

Medical

Industrial

Sports

Other

Companies Profiled:

Biopac

iWorx Systems, Inc.

ADInstruments

Hoggan Scientific

Loadcellsensor Technology Co., Limited

Forsentek

Cambridge Research Systems

Great Lakes NeuroTechnologies Inc

Vernier

DYSensor

Dst (Shenzhen) Sensor Co., Ltd.

Shenzhen Huaheng Measurement Co., Ltd.

Key Questions Answered:

1. How big is the global Grip Force Sensor market?
2. What is the demand of the global Grip Force Sensor market?
3. What is the year over year growth of the global Grip Force Sensor market?
4. What is the production and production value of the global Grip Force Sensor market?
5. Who are the key producers in the global Grip Force Sensor market?
6. What are the growth factors driving the market demand?

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