

# Global Grip Force Sensor Market 2026 by Manufacturers, Regions, Type and Application, Forecast to 2032

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## Abstracts

According to our (Global Info Research) latest study, the global Grip Force Sensor market size was valued at US\$ 5093 million in 2025 and is forecast to a readjusted size of US\$ 13300 million by 2032 with a CAGR of 14.6% during review period.

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 is a detailed and comprehensive analysis for global Grip Force Sensor market. Both quantitative and qualitative analyses are presented by manufacturers, 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 Grip Force Sensor market size and forecasts, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2021-2032

Global Grip Force Sensor market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2021-2032

Global Grip Force Sensor market size and forecasts, by Type and by Application, in

consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2021-2032

Global Grip Force Sensor market shares of main players, shipments in revenue (\$ Million), sales quantity (K Units), and ASP (US\$/Unit), 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 Grip Force Sensor

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 Grip Force Sensor market based on the following parameters - company overview, sales quantity, revenue, 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.

### **Market Segmentation**

Grip Force Sensor 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 in terms of volume and value. This analysis can help you expand your business by targeting qualified niche markets.

Market segment by Type

Balloon Type

Handle Type

## Market segment by Signal Output Principle

Analog Output Type

Digital Output Type

## Market segment by Measurement Dimensions

Single-axis Force Sensor

Multi-axis Force Sensor

## Market segment by Application

Medical

Industrial

Sports

Other

## Major players covered

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.

Market segment by region, regional analysis covers

North America (United States, Canada, and Mexico)

Europe (Germany, France, United Kingdom, Russia, Italy, and Rest of Europe)

Asia-Pacific (China, Japan, Korea, India, Southeast Asia, and Australia)

South America (Brazil, Argentina, Colombia, and Rest of South America)

Middle East & Africa (Saudi Arabia, UAE, Egypt, South Africa, and Rest of Middle East & Africa)

**The content of the study subjects, includes a total of 15 chapters:**

Chapter 1, to describe Grip Force Sensor product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Grip Force Sensor, with price, sales quantity, revenue, and global market share of Grip Force Sensor from 2021 to 2026.

Chapter 3, the Grip Force Sensor competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape

contrast.

Chapter 4, the Grip Force Sensor breakdown data are shown at the regional level, to show the sales quantity, consumption value, and growth by regions, from 2021 to 2032.

Chapter 5 and 6, to segment the sales by Type and by Application, with sales market share and growth rate by Type, by Application, from 2021 to 2032.

Chapter 7, 8, 9, 10 and 11, to break the sales data at the country level, with sales quantity, consumption value, and market share for key countries in the world, from 2021 to 2026. and Grip Force Sensor market forecast, by regions, by Type, and by Application, with sales and revenue, from 2027 to 2032.

Chapter 12, market dynamics, drivers, restraints, trends, and Porters Five Forces analysis.

Chapter 13, the key raw materials and key suppliers, and industry chain of Grip Force Sensor.

Chapter 14 and 15, to describe Grip Force Sensor sales channel, distributors, customers, research findings and conclusion.

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