

Global Six-Dimensional Force Sensors Competitive Landscape Professional Research Report 2025

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Abstracts

Market Overview

According to DIResearch's in-depth investigation and research, the global Six-Dimensional Force Sensors market size will reach 472.27 Million USD in 2025 and is projected to reach 5,601.87 Million USD by 2032, with a CAGR of 42.38% (2025-2032). Notably, the China Six-Dimensional Force Sensors market has changed rapidly in the past few years. By 2025, China's market size is expected to be Million USD, representing approximately % of the global market share.

Research Summary

Six-dimensional force sensors are precision devices designed to measure forces and torques along three translational axes (X, Y, Z) and three rotational axes (roll, pitch, yaw) simultaneously. By capturing this comprehensive set of force and torque data, they enable accurate monitoring of complex interactions between objects, which is essential in fields like robotics, biomechanics, aerospace, and manufacturing. These sensors are crucial for tasks such as force-controlled robotic manipulation, ergonomic analysis, and structural testing, where understanding both linear and rotational loads in real time is vital for performance and safety.

The major global manufacturers of Six-Dimensional Force Sensors include ATI Industrial Automation, Schunk, Advanced Mechanical Technology, Sunrise Instruments (SRI), Kistler, Robotiq, Epson, Nordbo Robotics, ME-Me?systeme, Wacoh-Tech, Kunwei Beijing Technology, Shenzhen Xinjingcheng Sensing Technolog, Robotous, FUTEK, Blue Point Touch (Beijing) Technology, Bota Systems, FANUC, Changzhou Right Measurement and control system, Hypersen Technologies, Sintokogio, Anhui

Zhongke Mi Point Sensor, Nanjing Bio-inspired Intelligent Technology, Aidin Robotics, OnRobot, Guangzhou Haozhi Industrial, Anhui Bioforcen Intelligent Technology, Chongqing Luban Robotics Technology Research Institute, Shenzhen Jia'an Intelligent Technology, Torque Sensor Technology (Shenzhen), Keli Sensing Technology(Ningbo), Zhonghang Electronic Measuring Instruments, Shenzhen Ampron Technology, etc. The global players competition landscape in this report is divided into three tiers. The first tier comprises global leading enterprises that command a substantial market share, hold a dominant industry position, possess strong competitiveness and influence, and generate significant revenue. The second tier includes companies with a notable market presence and reputation; these firms actively follow industry leaders in product, service, or technological innovation and maintain a moderate revenue scale. The third tier consists of smaller companies with limited market share and lower brand recognition, primarily focused on local markets and generating comparatively lower revenue.

This report studies the market size, price trends and future development prospects of Six-Dimensional Force Sensors. Focus on analysing the market share, product portfolio, prices, sales, revenue and gross profit margin of global major manufacturers, as well as the market status and trends of different product types and applications in the global Six-Dimensional Force Sensors market. The report data covers historical data from 2020 to 2024, based year in 2025 and forecast data from 2026 to 2032.

The regions and countries in the report include North America, Europe, China, APAC (excl. China), Latin America and Middle East and Africa, covering the Six-Dimensional Force Sensors market conditions and future development trends of key regions and countries, combined with industry-related policies and the latest technological developments, analyze the development characteristics of Six-Dimensional Force Sensors industries in various regions and countries, help companies understand the development characteristics of each region, help companies formulate business strategies, and achieve the ultimate goal of the company's global development strategy.

The data sources of this report mainly include the National Bureau of Statistics, customs databases, industry associations, corporate financial reports, third-party databases, etc. Among them, macroeconomic data mainly comes from the National Bureau of Statistics, International Economic Research Organization; industry statistical data mainly come from industry associations; company data mainly comes from interviews, public information collection, third-party reliable databases, and price data mainly comes from various markets monitoring database.

Global Key Manufacturers of Six-Dimensional Force Sensors Include:

ATI Industrial Automation

Schunk

Advanced Mechanical Technology

Sunrise Instruments (SRI)

Kistler

Robotiq

Epson

Nordbo Robotics

ME-Me?systeme

Wacoh-Tech

Kunwei Beijing Technology

Shenzhen Xinjingcheng Sensing Technolog

Robotous

FUTEK

Blue Point Touch (Beijing) Technology

Bota Systems

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Anhui Bioforcen Intelligent Technology

Chongqing Luban Robotics Technology Research Institute

Shenzhen Jia'an Intelligent Technology

Torque Sensor Technology (Shenzhen)

Keli Sensing Technology(Ningbo)

Zhonghang Electronic Measuring Instruments

Shenzhen Ampron Technology

Six-Dimensional Force Sensors Product Segment Include:

Strain Gauge Type

Piezoelectric/Capacitive Type

Others

Six-Dimensional Force Sensors Product Application Include:

Industrial Robots

Medical Robots

Automotive Field

Humanoid Robots

Others

Chapter Scope

Chapter 1: Product Research Range, Product Types and Applications, Market Overview, Market Situation and Trends

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