

Global Single-Axis Torque Sensor Market Research Report 2026(Status and Outlook)

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Abstracts

The 2025 U.S. tariff policies introduce profound uncertainty into the global economic landscape. This report critically examines the implications of recent tariff adjustments and international strategic countermeasures on Single-Axis Torque Sensor competitive dynamics, regional economic interdependencies, and supply chain reconfigurations. In 2024, the global production of single-axis torque sensors will reach 366k units, with an average selling price of US\$1200 per unit. A single-axis torque sensor is a precision test device used to measure torque on a single rotating shaft. It typically consists of an elastomer, a strain gauge or other sensitive element, and signal processing circuitry. When the shaft is subjected to torsional force, the elastomer undergoes a slight deformation, which the sensor converts and outputs as an electrical signal, enabling accurate torque monitoring. Compared to multi-axis force/torque sensors, these sensors measure only one degree of freedom, resulting in a more compact structure, relatively low cost, and higher accuracy and stability.

The global Single-Axis Torque Sensor market size was estimated at USD 439.0 million in 2025 and is projected to grow at a compound annual growth rate (CAGR) of 12.60% during the forecast period.

This report offers a comprehensive and in-depth analysis of the global Single-Axis Torque Sensor market, covering all critical facets from a broad macroeconomic overview to detailed micro-level insights. It examines market size, competitive landscape, emerging development trends, niche segments, key drivers and challenges, as well as conducts SWOT and value chain analyses.

The insights provided enable readers to understand the competitive dynamics within the industry and formulate effective strategies to enhance profitability and market

positioning. Additionally, the report presents a clear framework for evaluating the current status and future outlook of business organizations operating in this sector.

A significant focus of this report lies in the competitive landscape of the global Single-Axis Torque Sensor market. It offers detailed profiles of major players, including their market shares, performance metrics, product portfolios, and operational status. This enables stakeholders to identify leading competitors and gain a nuanced understanding of market rivalry and structure.

In summary, this report serves as an essential resource for industry participants, investors, researchers, consultants, and business strategists, as well as anyone planning to enter or expand their presence in the Single-Axis Torque Sensor market.

Global Single-Axis Torque Sensor Market: Market Segmentation Analysis

This research report provides a detailed segmentation of the market by region (country), key manufacturers, product type, and application. Market segmentation divides the overall market into distinct subsets based on factors such as product categories, end-user industries, geographic locations, and other relevant criteria.

A clear understanding of these market segments enables decision-makers to tailor their product development, sales, and marketing strategies more effectively to meet the unique needs of each segment. Leveraging market segmentation insights can significantly enhance targeted approaches, optimize resource allocation, and accelerate product innovation cycles by aligning offerings with the specific demands of diverse customer groups.

Key Company

TE Connectivity

Schunk

ATI Industrial Automation

AL.Robot

Kistler

Sensodrive

Bota Systems

Aidin Robotics

Sunrise Instruments

Kunwei Technology

Xinjingcheng Sensing
Blue Point Touch
Bio-inspired Intelligent
Right Measurement and control
Zhonghang Electronic Measuring Instruments
Teamdrive

Market Segmentation (by Type)

Contact
Contactless

Market Segmentation (by Application)

Motors
Robotics
Aerospace
Automotive
Industrial Automation
Others

Geographic Segmentation

North America (USA, Canada, Mexico)

Europe (Germany, UK, France, Russia, Italy, Rest of Europe)

Asia-Pacific (China, Japan, South Korea, India, Southeast Asia, Rest of Asia-Pacific)

South America (Brazil, Argentina, Columbia, Rest of South America)

The Middle East and Africa (Saudi Arabia, UAE, Egypt, Nigeria, South Africa, Rest of MEA)

Key Benefits of This Market Research:

Industry drivers, restraints, and opportunities covered in the study

Neutral perspective on the market performance
Recent industry trends and developments
Competitive landscape & strategies of key players
Potential & niche segments and regions exhibiting promising growth covered
Historical, current, and projected market size, in terms of value
In-depth analysis of the Single-Axis Torque Sensor Market
Overview of the regional outlook of the Single-Axis Torque Sensor Market:

Customization of the Report

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Chapter Outline

Chapter 1 mainly introduces the statistical scope of the report, market division standards, and market research methods.

Chapter 2 is an executive summary of different market segments (by region, product type, application, etc), including the market size of each market segment, future development potential, and so on. It offers a high-level view of the current state of the Single-Axis Torque Sensor Market and its likely evolution in the short to mid-term, and long term.

Chapter 3 makes a detailed analysis of the market's competitive landscape of the market and provides the market share, capacity, output, price, latest development plan, merger, and acquisition information of the main manufacturers in the market.

Chapter 4 is the analysis of the whole market industrial chain, including the upstream and downstream of the industry, as well as Porter's five forces analysis.

Chapter 5 introduces the latest developments of the market, the driving factors and restrictive factors of the market, the challenges and risks faced by manufacturers in the industry, and the analysis of relevant policies in the industry.

Chapter 6 provides the analysis of various market segments according to product types, covering the market size and development potential of each market segment, to help readers find the blue ocean market in different market segments.

Chapter 7 provides the analysis of various market segments according to application, covering the market size and development potential of each market segment, to help readers find the blue ocean market in different downstream markets.

Chapter 8 provides a quantitative analysis of the market size and development potential of each region and its main countries and introduces the market development, future development prospects, market space, and capacity of each country in the world.

Chapter 9 shares the main producing countries of Single-Axis Torque Sensor, their output value, profit level, regional supply, production capacity layout, etc. from the supply side.

Chapter 10 introduces the basic situation of the main companies in the market in detail, including product sales revenue, sales volume, price, gross profit margin, market share, product introduction, recent development, etc.

Chapter 11 provides a quantitative analysis of the market size and development potential of each region in the next five years.

Chapter 12 provides a quantitative analysis of the market size and development potential of each market segment in the next five years.

Chapter 13 is the main points and conclusions of the report.

Key Reasons to Buy this Report:

Access to date statistics compiled by our researchers. These provide you with historical and forecast data, which is analyzed to tell you why your market is set to change

This enables you to anticipate market changes to remain ahead of your competitors

You will be able to copy data from the Excel spreadsheet straight into your marketing plans, business presentations, or other strategic documents

The concise analysis, clear graph, and table format will enable you to pinpoint the information you require quickly

Provision of market value data for each segment and sub-segment

Indicates the region and segment that is expected to witness the fastest growth as well as to dominate the market

Analysis by geography highlighting the consumption of the product/service in the region as well as indicating the factors that are affecting the market within each region

Competitive landscape which incorporates the market ranking of the major players, along with new service/product launches, partnerships, business expansions, and acquisitions in the past five years of companies profiled

Extensive company profiles comprising of company overview, company insights, product benchmarking, and SWOT analysis for the major market players

The current as well as the future market outlook of the industry concerning recent developments which involve growth opportunities and drivers as well as challenges and restraints of both emerging as well as developed regions

Includes in-depth analysis of the market from various perspectives through Porter's five forces analysis

Provides insight into the market through Value Chain

Market dynamics scenario, along with growth opportunities of the market in the years to come

6-month post-sales analyst support

Customization of the Report

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Contents

1 RESEARCH METHODOLOGY AND STATISTICAL SCOPE

- 1.1 Market Definition and Statistical Scope of Single-Axis Torque Sensor
- 1.2 Key Market Segments
 - 1.2.1 Single-Axis Torque Sensor Segment by Type
 - 1.2.2 Single-Axis Torque Sensor Segment by Application
- 1.3 Methodology & Sources of Information
 - 1.3.1 Research Methodology
 - 1.3.2 Research Process
 - 1.3.3 Market Breakdown and Data Triangulation
 - 1.3.4 Base Year
 - 1.3.5 Report Assumptions & Caveats

2 SINGLE-AXIS TORQUE SENSOR MARKET OVERVIEW

- 2.1 Global Market Overview
 - 2.1.1 Global Single-Axis Torque Sensor Market Size (M USD) Estimates and Forecasts (2020-2035)
 - 2.1.2 Global Single-Axis Torque Sensor Sales Estimates and Forecasts (2020-2035)
- 2.2 Market Segment Executive Summary
- 2.3 Global Market Size by Region

3 SINGLE-AXIS TORQUE SENSOR MARKET COMPETITIVE LANDSCAPE

- 3.1 Company Assessment Quadrant
- 3.2 Global Single-Axis Torque Sensor Product Life Cycle
- 3.3 Global Single-Axis Torque Sensor Sales by Manufacturers (2020-2025)
- 3.4 Global Single-Axis Torque Sensor Revenue Market Share by Manufacturers (2020-2025)
- 3.5 Single-Axis Torque Sensor Market Share by Company Type (Tier 1, Tier 2, and Tier 3)
- 3.6 Global Single-Axis Torque Sensor Average Price by Manufacturers (2020-2025)
- 3.7 Manufacturers? Manufacturing Sites, Areas Served, and Product Types
- 3.8 Single-Axis Torque Sensor Market Competitive Situation and Trends
 - 3.8.1 Single-Axis Torque Sensor Market Concentration Rate
 - 3.8.2 Global 5 and 10 Largest Single-Axis Torque Sensor Players Market Share by Revenue

3.8.3 Mergers & Acquisitions, Expansion

4 SINGLE-AXIS TORQUE SENSOR INDUSTRY CHAIN ANALYSIS

4.1 Single-Axis Torque Sensor Industry Chain Analysis

4.2 Market Overview of Key Raw Materials

4.3 Midstream Market Analysis

4.4 Downstream Customer Analysis

5 THE DEVELOPMENT AND DYNAMICS OF SINGLE-AXIS TORQUE SENSOR MARKET

5.1 Key Development Trends

5.2 Driving Factors

5.3 Market Challenges

5.4 Industry News

5.4.1 New Product Developments

5.4.2 Mergers & Acquisitions

5.4.3 Expansions

5.4.4 Collaboration/Supply Contracts

5.5 PEST Analysis

5.5.1 Industry Policies Analysis

5.5.2 Economic Environment Analysis

5.5.3 Social Environment Analysis

5.5.4 Technological Environment Analysis

5.6 Global Single-Axis Torque Sensor Market Porter's Five Forces Analysis

5.6.1 Global Trade Frictions

5.6.2 U.S. Tariff Policy ? April 2025

5.6.3 Global Trade Frictions and Their Impacts to Single-Axis Torque Sensor Market

5.7 ESG Ratings of Leading Companies

6 SINGLE-AXIS TORQUE SENSOR MARKET SEGMENTATION BY TYPE

6.1 Evaluation Matrix of Segment Market Development Potential (Type)

6.2 Global Single-Axis Torque Sensor Sales Market Share by Type (2020-2025)

6.3 Global Single-Axis Torque Sensor Market Size by Type (2020-2025)

6.4 Global Single-Axis Torque Sensor Price by Type (2020-2025)

7 SINGLE-AXIS TORQUE SENSOR MARKET SEGMENTATION BY APPLICATION

- 7.1 Evaluation Matrix of Segment Market Development Potential (Application)
- 7.2 Global Single-Axis Torque Sensor Market Sales by Application (2020-2025)
- 7.3 Global Single-Axis Torque Sensor Market Size (M USD) by Application (2020-2025)
- 7.4 Global Single-Axis Torque Sensor Sales Growth Rate by Application (2020-2025)

8 SINGLE-AXIS TORQUE SENSOR MARKET SALES BY REGION

- 8.1 Global Single-Axis Torque Sensor Sales by Region
 - 8.1.1 Global Single-Axis Torque Sensor Sales by Region
 - 8.1.2 Global Single-Axis Torque Sensor Sales Market Share by Region
- 8.2 Global Single-Axis Torque Sensor Market Size by Region
 - 8.2.1 Global Single-Axis Torque Sensor Market Size by Region
 - 8.2.2 Global Single-Axis Torque Sensor Market Size by Region
- 8.3 North America
 - 8.3.1 North America Single-Axis Torque Sensor Sales by Country
 - 8.3.2 North America Single-Axis Torque Sensor Market Size by Country
 - 8.3.3 U.S. Market Overview
 - 8.3.4 Canada Market Overview
 - 8.3.5 Mexico Market Overview
- 8.4 Europe
 - 8.4.1 Europe Single-Axis Torque Sensor Sales by Country
 - 8.4.2 Europe Single-Axis Torque Sensor Market Size by Country
 - 8.4.3 Germany Market Overview
 - 8.4.4 France Market Overview
 - 8.4.5 U.K. Market Overview
 - 8.4.6 Italy Market Overview
 - 8.4.7 Spain Market Overview
- 8.5 Asia Pacific
 - 8.5.1 Asia Pacific Single-Axis Torque Sensor Sales by Region
 - 8.5.2 Asia Pacific Single-Axis Torque Sensor Market Size by Region
 - 8.5.3 China Market Overview
 - 8.5.4 Japan Market Overview
 - 8.5.5 South Korea Market Overview
 - 8.5.6 India Market Overview
 - 8.5.7 Southeast Asia Market Overview
- 8.6 South America
 - 8.6.1 South America Single-Axis Torque Sensor Sales by Country
 - 8.6.2 South America Single-Axis Torque Sensor Market Size by Country

- 8.6.3 Brazil Market Overview
- 8.6.4 Argentina Market Overview
- 8.6.5 Columbia Market Overview
- 8.7 Middle East and Africa
 - 8.7.1 Middle East and Africa Single-Axis Torque Sensor Sales by Region
 - 8.7.2 Middle East and Africa Single-Axis Torque Sensor Market Size by Region
 - 8.7.3 Saudi Arabia Market Overview
 - 8.7.4 UAE Market Overview
 - 8.7.5 Egypt Market Overview
 - 8.7.6 Nigeria Market Overview
 - 8.7.7 South Africa Market Overview

9 SINGLE-AXIS TORQUE SENSOR MARKET PRODUCTION BY REGION

- 9.1 Global Production of Single-Axis Torque Sensor by Region(2020-2025)
- 9.2 Global Single-Axis Torque Sensor Revenue Market Share by Region (2020-2025)
- 9.3 Global Single-Axis Torque Sensor Production, Revenue, Price and Gross Margin (2020-2025)
- 9.4 North America Single-Axis Torque Sensor Production
 - 9.4.1 North America Single-Axis Torque Sensor Production Growth Rate (2020-2025)
 - 9.4.2 North America Single-Axis Torque Sensor Production, Revenue, Price and Gross Margin (2020-2025)
- 9.5 Europe Single-Axis Torque Sensor Production
 - 9.5.1 Europe Single-Axis Torque Sensor Production Growth Rate (2020-2025)
 - 9.5.2 Europe Single-Axis Torque Sensor Production, Revenue, Price and Gross Margin (2020-2025)
- 9.6 Japan Single-Axis Torque Sensor Production (2020-2025)
 - 9.6.1 Japan Single-Axis Torque Sensor Production Growth Rate (2020-2025)
 - 9.6.2 Japan Single-Axis Torque Sensor Production, Revenue, Price and Gross Margin (2020-2025)
- 9.7 China Single-Axis Torque Sensor Production (2020-2025)
 - 9.7.1 China Single-Axis Torque Sensor Production Growth Rate (2020-2025)
 - 9.7.2 China Single-Axis Torque Sensor Production, Revenue, Price and Gross Margin (2020-2025)

10 KEY COMPANIES PROFILE

- 10.1 TE Connectivity
 - 10.1.1 TE Connectivity Basic Information

- 10.1.2 TE Connectivity Single-Axis Torque Sensor Product Overview
- 10.1.3 TE Connectivity Single-Axis Torque Sensor Product Market Performance
- 10.1.4 TE Connectivity Business Overview
- 10.1.5 TE Connectivity SWOT Analysis
- 10.1.6 TE Connectivity Recent Developments
- 10.2 Schunk
 - 10.2.1 Schunk Basic Information
 - 10.2.2 Schunk Single-Axis Torque Sensor Product Overview
 - 10.2.3 Schunk Single-Axis Torque Sensor Product Market Performance
 - 10.2.4 Schunk Business Overview
 - 10.2.5 Schunk SWOT Analysis
 - 10.2.6 Schunk Recent Developments
- 10.3 ATI Industrial Automation
 - 10.3.1 ATI Industrial Automation Basic Information
 - 10.3.2 ATI Industrial Automation Single-Axis Torque Sensor Product Overview
 - 10.3.3 ATI Industrial Automation Single-Axis Torque Sensor Product Market Performance
 - 10.3.4 ATI Industrial Automation Business Overview
 - 10.3.5 ATI Industrial Automation SWOT Analysis
 - 10.3.6 ATI Industrial Automation Recent Developments
- 10.4 AL.Robot
 - 10.4.1 AL.Robot Basic Information
 - 10.4.2 AL.Robot Single-Axis Torque Sensor Product Overview
 - 10.4.3 AL.Robot Single-Axis Torque Sensor Product Market Performance
 - 10.4.4 AL.Robot Business Overview
 - 10.4.5 AL.Robot Recent Developments
- 10.5 Kistler
 - 10.5.1 Kistler Basic Information
 - 10.5.2 Kistler Single-Axis Torque Sensor Product Overview
 - 10.5.3 Kistler Single-Axis Torque Sensor Product Market Performance
 - 10.5.4 Kistler Business Overview
 - 10.5.5 Kistler Recent Developments
- 10.6 Sensodrive
 - 10.6.1 Sensodrive Basic Information
 - 10.6.2 Sensodrive Single-Axis Torque Sensor Product Overview
 - 10.6.3 Sensodrive Single-Axis Torque Sensor Product Market Performance
 - 10.6.4 Sensodrive Business Overview
 - 10.6.5 Sensodrive Recent Developments
- 10.7 Bota Systems

- 10.7.1 Bota Systems Basic Information
- 10.7.2 Bota Systems Single-Axis Torque Sensor Product Overview
- 10.7.3 Bota Systems Single-Axis Torque Sensor Product Market Performance
- 10.7.4 Bota Systems Business Overview
- 10.7.5 Bota Systems Recent Developments
- 10.8 Aidin Robotics
 - 10.8.1 Aidin Robotics Basic Information
 - 10.8.2 Aidin Robotics Single-Axis Torque Sensor Product Overview
 - 10.8.3 Aidin Robotics Single-Axis Torque Sensor Product Market Performance
 - 10.8.4 Aidin Robotics Business Overview
 - 10.8.5 Aidin Robotics Recent Developments
- 10.9 Sunrise Instruments
 - 10.9.1 Sunrise Instruments Basic Information
 - 10.9.2 Sunrise Instruments Single-Axis Torque Sensor Product Overview
 - 10.9.3 Sunrise Instruments Single-Axis Torque Sensor Product Market Performance
 - 10.9.4 Sunrise Instruments Business Overview
 - 10.9.5 Sunrise Instruments Recent Developments
- 10.10 Kunwei Technology
 - 10.10.1 Kunwei Technology Basic Information
 - 10.10.2 Kunwei Technology Single-Axis Torque Sensor Product Overview
 - 10.10.3 Kunwei Technology Single-Axis Torque Sensor Product Market Performance
 - 10.10.4 Kunwei Technology Business Overview
 - 10.10.5 Kunwei Technology Recent Developments
- 10.11 Xinjingcheng Sensing
 - 10.11.1 Xinjingcheng Sensing Basic Information
 - 10.11.2 Xinjingcheng Sensing Single-Axis Torque Sensor Product Overview
 - 10.11.3 Xinjingcheng Sensing Single-Axis Torque Sensor Product Market Performance
 - 10.11.4 Xinjingcheng Sensing Business Overview
 - 10.11.5 Xinjingcheng Sensing Recent Developments
- 10.12 Blue Point Touch
 - 10.12.1 Blue Point Touch Basic Information
 - 10.12.2 Blue Point Touch Single-Axis Torque Sensor Product Overview
 - 10.12.3 Blue Point Touch Single-Axis Torque Sensor Product Market Performance
 - 10.12.4 Blue Point Touch Business Overview
 - 10.12.5 Blue Point Touch Recent Developments
- 10.13 Bio-inspired Intelligent
 - 10.13.1 Bio-inspired Intelligent Basic Information
 - 10.13.2 Bio-inspired Intelligent Single-Axis Torque Sensor Product Overview

- 10.13.3 Bio-inspired Intelligent Single-Axis Torque Sensor Product Market Performance
- 10.13.4 Bio-inspired Intelligent Business Overview
- 10.13.5 Bio-inspired Intelligent Recent Developments
- 10.14 Right Measurement and control
 - 10.14.1 Right Measurement and control Basic Information
 - 10.14.2 Right Measurement and control Single-Axis Torque Sensor Product Overview
 - 10.14.3 Right Measurement and control Single-Axis Torque Sensor Product Market Performance
 - 10.14.4 Right Measurement and control Business Overview
 - 10.14.5 Right Measurement and control Recent Developments
- 10.15 Zhonghang Electronic Measuring Instruments
 - 10.15.1 Zhonghang Electronic Measuring Instruments Basic Information
 - 10.15.2 Zhonghang Electronic Measuring Instruments Single-Axis Torque Sensor Product Overview
 - 10.15.3 Zhonghang Electronic Measuring Instruments Single-Axis Torque Sensor Product Market Performance
 - 10.15.4 Zhonghang Electronic Measuring Instruments Business Overview
 - 10.15.5 Zhonghang Electronic Measuring Instruments Recent Developments
- 10.16 Teamdrive
 - 10.16.1 Teamdrive Basic Information
 - 10.16.2 Teamdrive Single-Axis Torque Sensor Product Overview
 - 10.16.3 Teamdrive Single-Axis Torque Sensor Product Market Performance
 - 10.16.4 Teamdrive Business Overview
 - 10.16.5 Teamdrive Recent Developments

11 SINGLE-AXIS TORQUE SENSOR MARKET FORECAST BY REGION

- 11.1 Global Single-Axis Torque Sensor Market Size Forecast
- 11.2 Global Single-Axis Torque Sensor Market Forecast by Region
 - 11.2.1 North America Market Size Forecast by Country
 - 11.2.2 Europe Single-Axis Torque Sensor Market Size Forecast by Country
 - 11.2.3 Asia Pacific Single-Axis Torque Sensor Market Size Forecast by Region
 - 11.2.4 South America Single-Axis Torque Sensor Market Size Forecast by Country
 - 11.2.5 Middle East and Africa Forecasted Sales of Single-Axis Torque Sensor by Country

12 FORECAST MARKET BY TYPE AND BY APPLICATION (2026-2035)

- 12.1 Global Single-Axis Torque Sensor Market Forecast by Type (2026-2035)
 - 12.1.1 Global Forecasted Sales of Single-Axis Torque Sensor by Type (2026-2035)
 - 12.1.2 Global Single-Axis Torque Sensor Market Size Forecast by Type (2026-2035)
 - 12.1.3 Global Forecasted Price of Single-Axis Torque Sensor by Type (2026-2035)
- 12.2 Global Single-Axis Torque Sensor Market Forecast by Application (2026-2035)
 - 12.2.1 Global Single-Axis Torque Sensor Sales (K Units) Forecast by Application
 - 12.2.2 Global Single-Axis Torque Sensor Market Size (M USD) Forecast by Application (2026-2035)

13 CONCLUSION AND KEY FINDINGS

List Of Tables

LIST OF TABLES

- Table 1. Introduction of the Type
- Table 2. Introduction of the Application
- Table 3. Global Single-Axis Torque Sensor Market Size by Type (M USD)
- Table 4. Global Single-Axis Torque Sensor Market Size by Application
- Table 5. Single-Axis Torque Sensor Market Size Comparison by Region (M USD)
- Table 6. Global Single-Axis Torque Sensor Sales (K Units) by Manufacturers (2020-2025)
- Table 7. Global Single-Axis Torque Sensor Sales Market Share by Manufacturers (2020-2025)
- Table 8. Global Single-Axis Torque Sensor Revenue (M USD) by Manufacturers (2020-2025)
- Table 9. Global Single-Axis Torque Sensor Revenue Share by Manufacturers (2020-2025)
- Table 10. Company Type (Tier 1, Tier 2, and Tier 3) & (based on the Revenue in Single-Axis Torque Sensor as of 2025)
- Table 11. Global Market Single-Axis Torque Sensor Average Price (USD/Unit) of Key Manufacturers (2020-2025)
- Table 12. Manufacturers? Manufacturing Sites, Areas Served
- Table 13. Manufacturers? Product Type
- Table 14. Global Single-Axis Torque Sensor Manufacturers Market Concentration Ratio (CR5 and HHI)
- Table 15. Mergers & Acquisitions, Expansion Plans
- Table 16. Market Overview of Key Raw Materials
- Table 17. Midstream Market Analysis
- Table 18. Downstream Customer Analysis
- Table 19. Key Development Trends
- Table 20. Driving Factors
- Table 21. Single-Axis Torque Sensor Market Challenges
- Table 22. Goldman Sachs' forecast real GDP growth rate for 2025-2026
- Table 23. S&P Global ' Forecast Real GDP Growth Rate For 2025-2027
- Table 24. World Bank ' Forecast Real GDP Growth Rate For 2025-2026
- Table 25. The Tariff Rates Imposed by the United States on Major Commodity Trading Countries
- Table 26. Global Single-Axis Torque Sensor Sales by Type (K Units)
- Table 27. Global Single-Axis Torque Sensor Market Size by Type (M USD)

- Table 28. Global Single-Axis Torque Sensor Sales (K Units) by Type (2020-2025)
- Table 29. Global Single-Axis Torque Sensor Sales Market Share by Type (2020-2025)
- Table 30. Global Single-Axis Torque Sensor Market Size (M USD) by Type (2020-2025)
- Table 31. Global Single-Axis Torque Sensor Market Share by Type (2020-2025)
- Table 32. Global Single-Axis Torque Sensor Price (USD/Unit) by Type (2020-2025)
- Table 33. Global Single-Axis Torque Sensor Sales (K Units) by Application
- Table 34. Global Single-Axis Torque Sensor Market Size by Application
- Table 35. Global Single-Axis Torque Sensor Sales by Application (2020-2025) & (K Units)
- Table 36. Global Single-Axis Torque Sensor Sales Market Share by Application (2020-2025)
- Table 37. Global Single-Axis Torque Sensor Market Size by Application (2020-2025) & (M USD)
- Table 38. Global Single-Axis Torque Sensor Market Share by Application (2020-2025)
- Table 39. Global Single-Axis Torque Sensor Sales Growth Rate by Application (2020-2025)
- Table 40. Global Single-Axis Torque Sensor Sales by Region (2020-2025) & (K Units)
- Table 41. Global Single-Axis Torque Sensor Sales Market Share by Region (2020-2025)
- Table 42. Global Single-Axis Torque Sensor Market Size by Region (2020-2025) & (M USD)
- Table 43. Global Single-Axis Torque Sensor Market Size by Region (2020-2025)
- Table 44. North America Single-Axis Torque Sensor Sales by Country (2020-2025) & (K Units)
- Table 45. North America Single-Axis Torque Sensor Market Size by Country (2020-2025) & (M USD)
- Table 46. Europe Single-Axis Torque Sensor Sales by Country (2020-2025) & (K Units)
- Table 47. Europe Single-Axis Torque Sensor Market Size by Country (2020-2025) & (M USD)
- Table 48. Asia Pacific Single-Axis Torque Sensor Sales by Region (2020-2025) & (K Units)
- Table 49. Asia Pacific Single-Axis Torque Sensor Market Size by Region (2020-2025) & (M USD)
- Table 50. South America Single-Axis Torque Sensor Sales by Country (2020-2025) & (K Units)
- Table 51. South America Single-Axis Torque Sensor Market Size by Country (2020-2025) & (M USD)
- Table 52. Middle East and Africa Single-Axis Torque Sensor Sales by Region (2020-2025) & (K Units)

Table 53. Middle East and Africa Single-Axis Torque Sensor Market Size by Region (2020-2025) & (M USD)

Table 54. Global Single-Axis Torque Sensor Production (K Units) by Region(2020-2025)

Table 55. Global Single-Axis Torque Sensor Revenue (US\$ Million) by Region (2020-2025)

Table 56. Global Single-Axis Torque Sensor Revenue Market Share by Region (2020-2025)

Table 57. Global Single-Axis Torque Sensor Production (K Units), Revenue (US\$ Million), Price (USD/Unit) and Gross Margin (2020-2025)

Table 58. North America Single-Axis Torque Sensor Production (K Units), Revenue (US\$ Million), Price (USD/Unit) and Gross Margin (2020-2025)

Table 59. Europe Single-Axis Torque Sensor Production (K Units), Revenue (US\$ Million), Price (USD/Unit) and Gross Margin (2020-2025)

Table 60. Japan Single-Axis Torque Sensor Production (K Units), Revenue (US\$ Million), Price (USD/Unit) and Gross Margin (2020-2025)

Table 61. China Single-Axis Torque Sensor Production (K Units), Revenue (US\$ Million), Price (USD/Unit) and Gross Margin (2020-2025)

Table 62. TE Connectivity Basic Information

Table 63. TE Connectivity Single-Axis Torque Sensor Product Overview

Table 64. TE Connectivity Single-Axis Torque Sensor Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)

Table 65. TE Connectivity Business Overview

Table 66. TE Connectivity SWOT Analysis

Table 67. TE Connectivity Recent Developments

Table 68. Schunk Basic Information

Table 69. Schunk Single-Axis Torque Sensor Product Overview

Table 70. Schunk Single-Axis Torque Sensor Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)

Table 71. Schunk Business Overview

Table 72. Schunk SWOT Analysis

Table 73. Schunk Recent Developments

Table 74. ATI Industrial Automation Basic Information

Table 75. ATI Industrial Automation Single-Axis Torque Sensor Product Overview

Table 76. ATI Industrial Automation Single-Axis Torque Sensor Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)

Table 77. ATI Industrial Automation Business Overview

Table 78. ATI Industrial Automation SWOT Analysis

Table 79. ATI Industrial Automation Recent Developments

Table 80. AL.Robot Basic Information

- Table 81. AL.Robot Single-Axis Torque Sensor Product Overview
- Table 82. AL.Robot Single-Axis Torque Sensor Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)
- Table 83. AL.Robot Business Overview
- Table 84. AL.Robot Recent Developments
- Table 85. Kistler Basic Information
- Table 86. Kistler Single-Axis Torque Sensor Product Overview
- Table 87. Kistler Single-Axis Torque Sensor Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)
- Table 88. Kistler Business Overview
- Table 89. Kistler Recent Developments
- Table 90. Sensodrive Basic Information
- Table 91. Sensodrive Single-Axis Torque Sensor Product Overview
- Table 92. Sensodrive Single-Axis Torque Sensor Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)
- Table 93. Sensodrive Business Overview
- Table 94. Sensodrive Recent Developments
- Table 95. Bota Systems Basic Information
- Table 96. Bota Systems Single-Axis Torque Sensor Product Overview
- Table 97. Bota Systems Single-Axis Torque Sensor Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)
- Table 98. Bota Systems Business Overview
- Table 99. Bota Systems Recent Developments
- Table 100. Aidin Robotics Basic Information
- Table 101. Aidin Robotics Single-Axis Torque Sensor Product Overview
- Table 102. Aidin Robotics Single-Axis Torque Sensor Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)
- Table 103. Aidin Robotics Business Overview
- Table 104. Aidin Robotics Recent Developments
- Table 105. Sunrise Instruments Basic Information
- Table 106. Sunrise Instruments Single-Axis Torque Sensor Product Overview
- Table 107. Sunrise Instruments Single-Axis Torque Sensor Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)
- Table 108. Sunrise Instruments Business Overview
- Table 109. Sunrise Instruments Recent Developments
- Table 110. Kunwei Technology Basic Information
- Table 111. Kunwei Technology Single-Axis Torque Sensor Product Overview
- Table 112. Kunwei Technology Single-Axis Torque Sensor Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)

- Table 113. Kunwei Technology Business Overview
- Table 114. Kunwei Technology Recent Developments
- Table 115. Xinjingcheng Sensing Basic Information
- Table 116. Xinjingcheng Sensing Single-Axis Torque Sensor Product Overview
- Table 117. Xinjingcheng Sensing Single-Axis Torque Sensor Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)
- Table 118. Xinjingcheng Sensing Business Overview
- Table 119. Xinjingcheng Sensing Recent Developments
- Table 120. Blue Point Touch Basic Information
- Table 121. Blue Point Touch Single-Axis Torque Sensor Product Overview
- Table 122. Blue Point Touch Single-Axis Torque Sensor Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)
- Table 123. Blue Point Touch Business Overview
- Table 124. Blue Point Touch Recent Developments
- Table 125. Bio-inspired Intelligent Basic Information
- Table 126. Bio-inspired Intelligent Single-Axis Torque Sensor Product Overview
- Table 127. Bio-inspired Intelligent Single-Axis Torque Sensor Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)
- Table 128. Bio-inspired Intelligent Business Overview
- Table 129. Bio-inspired Intelligent Recent Developments
- Table 130. Right Measurement and control Basic Information
- Table 131. Right Measurement and control Single-Axis Torque Sensor Product Overview
- Table 132. Right Measurement and control Single-Axis Torque Sensor Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)
- Table 133. Right Measurement and control Business Overview
- Table 134. Right Measurement and control Recent Developments
- Table 135. Zhonghang Electronic Measuring Instruments Basic Information
- Table 136. Zhonghang Electronic Measuring Instruments Single-Axis Torque Sensor Product Overview
- Table 137. Zhonghang Electronic Measuring Instruments Single-Axis Torque Sensor Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)
- Table 138. Zhonghang Electronic Measuring Instruments Business Overview
- Table 139. Zhonghang Electronic Measuring Instruments Recent Developments
- Table 140. Teamdrive Basic Information
- Table 141. Teamdrive Single-Axis Torque Sensor Product Overview
- Table 142. Teamdrive Single-Axis Torque Sensor Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)
- Table 143. Teamdrive Business Overview

Table 144. Teamdrive Recent Developments

Table 145. Global Single-Axis Torque Sensor Sales Forecast by Region (2026-2035) & (K Units)

Table 146. Global Single-Axis Torque Sensor Market Size Forecast by Region (2026-2035) & (M USD)

Table 147. North America Single-Axis Torque Sensor Sales Forecast by Country (2026-2035) & (K Units)

Table 148. North America Single-Axis Torque Sensor Market Size Forecast by Country (2026-2035) & (M USD)

Table 149. Europe Single-Axis Torque Sensor Sales Forecast by Country (2026-2035) & (K Units)

Table 150. Europe Single-Axis Torque Sensor Market Size Forecast by Country (2026-2035) & (M USD)

Table 151. Asia Pacific Single-Axis Torque Sensor Sales Forecast by Region (2026-2035) & (K Units)

Table 152. Asia Pacific Single-Axis Torque Sensor Market Size Forecast by Region (2026-2035) & (M USD)

Table 153. South America Single-Axis Torque Sensor Sales Forecast by Country (2026-2035) & (K Units)

Table 154. South America Single-Axis Torque Sensor Market Size Forecast by Country (2026-2035) & (M USD)

Table 155. Middle East and Africa Single-Axis Torque Sensor Sales Forecast by Country (2026-2035) & (Units)

Table 156. Middle East and Africa Single-Axis Torque Sensor Market Size Forecast by Country (2026-2035) & (M USD)

Table 157. Global Single-Axis Torque Sensor Sales Forecast by Type (2026-2035) & (K Units)

Table 158. Global Single-Axis Torque Sensor Market Size Forecast by Type (2026-2035) & (M USD)

Table 159. Global Single-Axis Torque Sensor Price Forecast by Type (2026-2035) & (USD/Unit)

Table 160. Global Single-Axis Torque Sensor Sales (K Units) Forecast by Application (2026-2035)

Table 161. Global Single-Axis Torque Sensor Market Size Forecast by Application (2026-2035) & (M USD)

List Of Figures

LIST OF FIGURES

- Figure 1. Product Picture of Single-Axis Torque Sensor
- Figure 2. Data Triangulation
- Figure 3. Key Caveats
- Figure 4. Global Single-Axis Torque Sensor Market Size (M USD), 2025-2035
- Figure 5. Global Single-Axis Torque Sensor Market Size (M USD) (2020-2035)
- Figure 6. Global Single-Axis Torque Sensor Sales (K Units) & (2020-2035)
- Figure 7. Evaluation Matrix of Segment Market Development Potential (Type)
- Figure 8. Evaluation Matrix of Segment Market Development Potential (Application)
- Figure 9. Evaluation Matrix of Regional Market Development Potential
- Figure 10. Single-Axis Torque Sensor Market Size by Country (M USD)
- Figure 11. Company Assessment Quadrant
- Figure 12. Global Single-Axis Torque Sensor Product Life Cycle
- Figure 13. Single-Axis Torque Sensor Sales Share by Manufacturers in 2025
- Figure 14. Global Single-Axis Torque Sensor Revenue Share by Manufacturers in 2025
- Figure 15. Single-Axis Torque Sensor Market Share by Company Type (Tier 1, Tier 2 and Tier 3): 2025
- Figure 16. Global Market Single-Axis Torque Sensor Average Price (USD/Unit) of Key Manufacturers in 2025
- Figure 17. The Global 5 and 10 Largest Players: Market Share by Single-Axis Torque Sensor Revenue in 2025
- Figure 18. Industry Chain Map of Single-Axis Torque Sensor
- Figure 19. Global Single-Axis Torque Sensor Market PEST Analysis
- Figure 20. Global Single-Axis Torque Sensor Market Porter's Five Forces Analysis
- Figure 21. Global Merchandise Trade as a Percentage Of GDP
- Figure 22. US - Imports of Goods by Country
- Figure 23. China Exports by Country
- Figure 24. ESG Rating Distribution of The Leading Company Compared With Its Peers
- Figure 25. Evaluation Matrix of Segment Market Development Potential (Type)
- Figure 26. Global Single-Axis Torque Sensor Market Share by Type
- Figure 27. Sales Market Share of Single-Axis Torque Sensor by Type (2020-2025)
- Figure 28. Sales Market Share of Single-Axis Torque Sensor by Type in 2025
- Figure 29. Market Share of Single-Axis Torque Sensor by Type (2020-2025)
- Figure 30. Market Share of Single-Axis Torque Sensor by Type in 2025
- Figure 31. Evaluation Matrix of Segment Market Development Potential (Application)
- Figure 32. Global Single-Axis Torque Sensor Market Share by Application

Figure 33. Global Single-Axis Torque Sensor Sales Market Share by Application (2020-2025)

Figure 34. Global Single-Axis Torque Sensor Sales Market Share by Application in 2025

Figure 35. Global Single-Axis Torque Sensor Market Share by Application (2020-2025)

Figure 36. Global Single-Axis Torque Sensor Market Share by Application in 2025

Figure 37. Global Single-Axis Torque Sensor Sales Growth Rate by Application (2020-2025)

Figure 38. Global Single-Axis Torque Sensor Sales Market Share by Region (2020-2025)

Figure 39. Global Single-Axis Torque Sensor Market Size by Region (2020-2025)

Figure 40. North America Single-Axis Torque Sensor Sales and Growth Rate (2020-2025) & (K Units)

Figure 41. North America Single-Axis Torque Sensor Sales and Growth Rate (2020-2025) & (K Units)

Figure 42. North America Single-Axis Torque Sensor Sales Market Share by Country in 2024

Figure 43. North America Single-Axis Torque Sensor Market Size and Growth Rate (2020-2025) & (M USD)

Figure 44. North America Single-Axis Torque Sensor Market Size by Country in 2024

Figure 45. U.S. Single-Axis Torque Sensor Sales and Growth Rate (2020-2025) & (K Units)

Figure 46. U.S. Single-Axis Torque Sensor Market Size and Growth Rate (2020-2025) & (M USD)

Figure 47. Canada Single-Axis Torque Sensor Sales (K Units) and Growth Rate (2020-2025)

Figure 48. Canada Single-Axis Torque Sensor Market Size (M USD) and Growth Rate (2020-2025)

Figure 49. Mexico Single-Axis Torque Sensor Sales (Units) and Growth Rate (2020-2025)

Figure 50. Mexico Single-Axis Torque Sensor Market Size (Units) and Growth Rate (2020-2025)

Figure 51. Europe Single-Axis Torque Sensor Sales and Growth Rate (2020-2025) & (K Units)

Figure 52. Europe Single-Axis Torque Sensor Sales Market Share by Country in 2024

Figure 53. Europe Single-Axis Torque Sensor Market Size and Growth Rate (2020-2025) & (M USD)

Figure 54. Europe Single-Axis Torque Sensor Market Size by Country in 2024

Figure 55. Germany Single-Axis Torque Sensor Sales and Growth Rate (2020-2025) & (K Units)

Figure 56. Germany Single-Axis Torque Sensor Market Size and Growth Rate (2020-2025) & (M USD)

Figure 57. France Single-Axis Torque Sensor Sales and Growth Rate (2020-2025) & (K Units)

Figure 58. France Single-Axis Torque Sensor Market Size and Growth Rate (2020-2025) & (M USD)

Figure 59. U.K. Single-Axis Torque Sensor Sales and Growth Rate (2020-2025) & (K Units)

Figure 60. U.K. Single-Axis Torque Sensor Market Size and Growth Rate (2020-2025) & (M USD)

Figure 61. Italy Single-Axis Torque Sensor Sales and Growth Rate (2020-2025) & (K Units)

Figure 62. Italy Single-Axis Torque Sensor Market Size and Growth Rate (2020-2025) & (M USD)

Figure 63. Spain Single-Axis Torque Sensor Sales and Growth Rate (2020-2025) & (K Units)

Figure 64. Spain Single-Axis Torque Sensor Market Size and Growth Rate (2020-2025) & (M USD)

Figure 65. Asia Pacific Single-Axis Torque Sensor Sales and Growth Rate (K Units)

Figure 66. Asia Pacific Single-Axis Torque Sensor Sales Market Share by Region in 2024

Figure 67. Asia Pacific Single-Axis Torque Sensor Market Size by Region in 2024

Figure 68. China Single-Axis Torque Sensor Sales and Growth Rate (2020-2025) & (K Units)

Figure 69. China Single-Axis Torque Sensor Market Size and Growth Rate (2020-2025) & (M USD)

Figure 70. Japan Single-Axis Torque Sensor Sales and Growth Rate (2020-2025) & (K Units)

Figure 71. Japan Single-Axis Torque Sensor Market Size and Growth Rate (2020-2025) & (M USD)

Figure 72. South Korea Single-Axis Torque Sensor Sales and Growth Rate (2020-2025) & (K Units)

Figure 73. South Korea Single-Axis Torque Sensor Market Size and Growth Rate (2020-2025) & (M USD)

Figure 74. India Single-Axis Torque Sensor Sales and Growth Rate (2020-2025) & (K Units)

Figure 75. India Single-Axis Torque Sensor Market Size and Growth Rate (2020-2025) & (M USD)

Figure 76. Southeast Asia Single-Axis Torque Sensor Sales and Growth Rate

(2020-2025) & (K Units)

Figure 77. Southeast Asia Single-Axis Torque Sensor Market Size and Growth Rate (2020-2025) & (M USD)

Figure 78. South America Single-Axis Torque Sensor Sales and Growth Rate (K Units)

Figure 79. South America Single-Axis Torque Sensor Sales Market Share by Country in 2024

Figure 80. South America Single-Axis Torque Sensor Market Size and Growth Rate (M USD)

Figure 81. South America Single-Axis Torque Sensor Market Size by Country in 2024

Figure 82. Brazil Single-Axis Torque Sensor Sales and Growth Rate (2020-2025) & (K Units)

Figure 83. Brazil Single-Axis Torque Sensor Market Size and Growth Rate (2020-2025) & (M USD)

Figure 84. Argentina Single-Axis Torque Sensor Sales and Growth Rate (2020-2025) & (K Units)

Figure 85. Argentina Single-Axis Torque Sensor Market Size and Growth Rate (2020-2025) & (M USD)

Figure 86. Columbia Single-Axis Torque Sensor Sales and Growth Rate (2020-2025) & (K Units)

Figure 87. Columbia Single-Axis Torque Sensor Market Size and Growth Rate (2020-2025) & (M USD)

Figure 88. Middle East and Africa Single-Axis Torque Sensor Sales and Growth Rate (K Units)

Figure 89. Middle East and Africa Single-Axis Torque Sensor Sales Market Share by Region in 2024

Figure 90. Middle East and Africa Single-Axis Torque Sensor Market Size and Growth Rate (M USD)

Figure 91. Middle East and Africa Single-Axis Torque Sensor Market Size by Region in 2024

Figure 92. Saudi Arabia Single-Axis Torque Sensor Sales and Growth Rate (2020-2025) & (K Units)

Figure 93. Saudi Arabia Single-Axis Torque Sensor Market Size and Growth Rate (2020-2025) & (M USD)

Figure 94. UAE Single-Axis Torque Sensor Sales and Growth Rate (2020-2025) & (K Units)

Figure 95. UAE Single-Axis Torque Sensor Market Size and Growth Rate (2020-2025) & (M USD)

Figure 96. Egypt Single-Axis Torque Sensor Sales and Growth Rate (2020-2025) & (K Units)

Figure 97. Egypt Single-Axis Torque Sensor Market Size and Growth Rate (2020-2025) & (M USD)

Figure 98. Nigeria Single-Axis Torque Sensor Sales and Growth Rate (2020-2025) & (K Units)

Figure 99. Nigeria Single-Axis Torque Sensor Market Size and Growth Rate (2020-2025) & (M USD)

Figure 100. South Africa Single-Axis Torque Sensor Sales and Growth Rate (2020-2025) & (K Units)

Figure 101. South Africa Single-Axis Torque Sensor Market Size and Growth Rate (2020-2025) & (M USD)

Figure 102. Global Single-Axis Torque Sensor Production Market Share by Region (2020-2025)

Figure 103. North America Single-Axis Torque Sensor Production (K Units) Growth Rate (2020-2025)

Figure 104. Europe Single-Axis Torque Sensor Production (K Units) Growth Rate (2020-2025)

Figure 105. Japan Single-Axis Torque Sensor Production (K Units) Growth Rate (2020-2025)

Figure 106. China Single-Axis Torque Sensor Production (K Units) Growth Rate (2020-2025)

Figure 107. Global Single-Axis Torque Sensor Sales Forecast by Volume (2020-2035) & (K Units)

Figure 108. Global Single-Axis Torque Sensor Market Size Forecast by Value (2020-2035) & (M USD)

Figure 109. Global Single-Axis Torque Sensor Sales Market Share Forecast by Type (2026-2035)

Figure 110. Global Single-Axis Torque Sensor Market Share Forecast by Type (2026-2035)

Figure 111. Global Single-Axis Torque Sensor Sales Forecast by Application (2026-2035)

Figure 112. Global Single-Axis Torque Sensor Market Share Forecast by Application (2026-2035)

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