

Global Articulated 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 Articulated Torque Sensor competitive dynamics, regional economic interdependencies, and supply chain reconfigurations. In 2024, the global production of articulated torque sensors will reach 420k units, with an average selling price of US\$1500 per unit. An articulated torque sensor is a precision sensing device installed at the joints of robots, robotic arms, or exoskeletons to measure joint torque in real time. It is usually composed of an elastomer, a strain gauge, or other sensitive elements, and a signal processing circuit. When the joint is in motion or under stress, the elastomer will produce a slight deformation. The sensor converts this deformation into an electrical signal and outputs it, thereby obtaining joint torque information. This type of sensor is an important core component for realizing robot force control, human-machine interaction, and flexible control. It enables robots to perform tasks not only based on position and speed, but also to "sense" external forces, thereby achieving safe, flexible, and high-precision operations in applications such as assembly, grinding, handling, and rehabilitation training. With the development of collaborative robots, service robots, and medical rehabilitation equipment, articulated torque sensors are showing a trend of miniaturization, integration, and high sensitivity, becoming one of the indispensable key technologies in the field of intelligent manufacturing and human-machine collaboration. The upstream of the industry chain of articulated torque sensors mainly includes raw material and component suppliers such as metal elastomer materials (such as high-strength steel, aluminum alloy), strain gauges, optical fiber or magnetoelectric sensor elements, and signal processing chips; the midstream is sensor manufacturing and integration companies, which are responsible for structural design, calibration and integration with motors, reducers or robot joint modules; the downstream is widely used in collaborative robots, industrial

robotic arms, service robots, medical rehabilitation equipment, exoskeletons, and automotive and aerospace testing industries. Relevant representative companies include robot manufacturers such as AUBO, JEKA, ABB, KUKA, and FANUC.

The global Articulated Torque Sensor market size was estimated at USD 628.0 million in 2025 and is projected to grow at a compound annual growth rate (CAGR) of 32.20% during the forecast period.

This report offers a comprehensive and in-depth analysis of the global Articulated 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 Articulated 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 Articulated Torque Sensor market.

Global Articulated 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)

Single Axis
Six Axis
Others

Market Segmentation (by Application)

Robot
Robotic Arm
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 Articulated Torque Sensor Market

Overview of the regional outlook of the Articulated Torque Sensor Market:

Customization of the Report

In case of any queries or customization requirements, please connect with our sales team, who will ensure that your requirements are met.

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 Articulated 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 Articulated 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 Articulated Torque Sensor
- 1.2 Key Market Segments
 - 1.2.1 Articulated Torque Sensor Segment by Type
 - 1.2.2 Articulated 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 ARTICULATED TORQUE SENSOR MARKET OVERVIEW

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

3 ARTICULATED TORQUE SENSOR MARKET COMPETITIVE LANDSCAPE

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

3.8.3 Mergers & Acquisitions, Expansion

4 ARTICULATED TORQUE SENSOR INDUSTRY CHAIN ANALYSIS

4.1 Articulated 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 ARTICULATED 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 Articulated 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 Articulated Torque Sensor Market

5.7 ESG Ratings of Leading Companies

6 ARTICULATED TORQUE SENSOR MARKET SEGMENTATION BY TYPE

6.1 Evaluation Matrix of Segment Market Development Potential (Type)

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

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

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

7 ARTICULATED TORQUE SENSOR MARKET SEGMENTATION BY APPLICATION

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

8 ARTICULATED TORQUE SENSOR MARKET SALES BY REGION

- 8.1 Global Articulated Torque Sensor Sales by Region
 - 8.1.1 Global Articulated Torque Sensor Sales by Region
 - 8.1.2 Global Articulated Torque Sensor Sales Market Share by Region
- 8.2 Global Articulated Torque Sensor Market Size by Region
 - 8.2.1 Global Articulated Torque Sensor Market Size by Region
 - 8.2.2 Global Articulated Torque Sensor Market Size by Region
- 8.3 North America
 - 8.3.1 North America Articulated Torque Sensor Sales by Country
 - 8.3.2 North America Articulated 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 Articulated Torque Sensor Sales by Country
 - 8.4.2 Europe Articulated 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 Articulated Torque Sensor Sales by Region
 - 8.5.2 Asia Pacific Articulated 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 Articulated Torque Sensor Sales by Country
 - 8.6.2 South America Articulated 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 Articulated Torque Sensor Sales by Region
 - 8.7.2 Middle East and Africa Articulated 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 ARTICULATED TORQUE SENSOR MARKET PRODUCTION BY REGION

- 9.1 Global Production of Articulated Torque Sensor by Region(2020-2025)
- 9.2 Global Articulated Torque Sensor Revenue Market Share by Region (2020-2025)
- 9.3 Global Articulated Torque Sensor Production, Revenue, Price and Gross Margin (2020-2025)
- 9.4 North America Articulated Torque Sensor Production
 - 9.4.1 North America Articulated Torque Sensor Production Growth Rate (2020-2025)
 - 9.4.2 North America Articulated Torque Sensor Production, Revenue, Price and Gross Margin (2020-2025)
- 9.5 Europe Articulated Torque Sensor Production
 - 9.5.1 Europe Articulated Torque Sensor Production Growth Rate (2020-2025)
 - 9.5.2 Europe Articulated Torque Sensor Production, Revenue, Price and Gross Margin (2020-2025)
- 9.6 Japan Articulated Torque Sensor Production (2020-2025)
 - 9.6.1 Japan Articulated Torque Sensor Production Growth Rate (2020-2025)
 - 9.6.2 Japan Articulated Torque Sensor Production, Revenue, Price and Gross Margin (2020-2025)
- 9.7 China Articulated Torque Sensor Production (2020-2025)
 - 9.7.1 China Articulated Torque Sensor Production Growth Rate (2020-2025)
 - 9.7.2 China Articulated 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 Articulated Torque Sensor Product Overview
- 10.1.3 TE Connectivity Articulated 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 Articulated Torque Sensor Product Overview
 - 10.2.3 Schunk Articulated 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 Articulated Torque Sensor Product Overview
 - 10.3.3 ATI Industrial Automation Articulated 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 Articulated Torque Sensor Product Overview
 - 10.4.3 AL.Robot Articulated 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 Articulated Torque Sensor Product Overview
 - 10.5.3 Kistler Articulated 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 Articulated Torque Sensor Product Overview
 - 10.6.3 Sensodrive Articulated 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 Articulated Torque Sensor Product Overview
- 10.7.3 Bota Systems Articulated 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 Articulated Torque Sensor Product Overview
 - 10.8.3 Aidin Robotics Articulated 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 Articulated Torque Sensor Product Overview
 - 10.9.3 Sunrise Instruments Articulated 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 Articulated Torque Sensor Product Overview
 - 10.10.3 Kunwei Technology Articulated 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 Articulated Torque Sensor Product Overview
 - 10.11.3 Xinjingcheng Sensing Articulated 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 Articulated Torque Sensor Product Overview
 - 10.12.3 Blue Point Touch Articulated 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 Articulated Torque Sensor Product Overview
 - 10.13.3 Bio-inspired Intelligent Articulated 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 Articulated Torque Sensor Product Overview
 - 10.14.3 Right Measurement and control Articulated 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 Articulated Torque Sensor Product Overview
 - 10.15.3 Zhonghang Electronic Measuring Instruments Articulated 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 Articulated Torque Sensor Product Overview
 - 10.16.3 Teamdrive Articulated Torque Sensor Product Market Performance
 - 10.16.4 Teamdrive Business Overview
 - 10.16.5 Teamdrive Recent Developments

11 ARTICULATED TORQUE SENSOR MARKET FORECAST BY REGION

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

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

- 12.1 Global Articulated Torque Sensor Market Forecast by Type (2026-2035)
 - 12.1.1 Global Forecasted Sales of Articulated Torque Sensor by Type (2026-2035)

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

Table 4. Global Articulated Torque Sensor Market Size by Application

Table 5. Articulated Torque Sensor Market Size Comparison by Region (M USD)

Table 6. Global Articulated Torque Sensor Sales (K Units) by Manufacturers (2020-2025)

Table 7. Global Articulated Torque Sensor Sales Market Share by Manufacturers (2020-2025)

Table 8. Global Articulated Torque Sensor Revenue (M USD) by Manufacturers (2020-2025)

Table 9. Global Articulated Torque Sensor Revenue Share by Manufacturers (2020-2025)

Table 10. Company Type (Tier 1, Tier 2, and Tier 3) & (based on the Revenue in Articulated Torque Sensor as of 2025)

Table 11. Global Market Articulated 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 Articulated 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. Articulated 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 Articulated Torque Sensor Sales by Type (K Units)

Table 27. Global Articulated Torque Sensor Market Size by Type (M USD)

- Table 28. Global Articulated Torque Sensor Sales (K Units) by Type (2020-2025)
- Table 29. Global Articulated Torque Sensor Sales Market Share by Type (2020-2025)
- Table 30. Global Articulated Torque Sensor Market Size (M USD) by Type (2020-2025)
- Table 31. Global Articulated Torque Sensor Market Share by Type (2020-2025)
- Table 32. Global Articulated Torque Sensor Price (USD/Unit) by Type (2020-2025)
- Table 33. Global Articulated Torque Sensor Sales (K Units) by Application
- Table 34. Global Articulated Torque Sensor Market Size by Application
- Table 35. Global Articulated Torque Sensor Sales by Application (2020-2025) & (K Units)
- Table 36. Global Articulated Torque Sensor Sales Market Share by Application (2020-2025)
- Table 37. Global Articulated Torque Sensor Market Size by Application (2020-2025) & (M USD)
- Table 38. Global Articulated Torque Sensor Market Share by Application (2020-2025)
- Table 39. Global Articulated Torque Sensor Sales Growth Rate by Application (2020-2025)
- Table 40. Global Articulated Torque Sensor Sales by Region (2020-2025) & (K Units)
- Table 41. Global Articulated Torque Sensor Sales Market Share by Region (2020-2025)
- Table 42. Global Articulated Torque Sensor Market Size by Region (2020-2025) & (M USD)
- Table 43. Global Articulated Torque Sensor Market Size by Region (2020-2025)
- Table 44. North America Articulated Torque Sensor Sales by Country (2020-2025) & (K Units)
- Table 45. North America Articulated Torque Sensor Market Size by Country (2020-2025) & (M USD)
- Table 46. Europe Articulated Torque Sensor Sales by Country (2020-2025) & (K Units)
- Table 47. Europe Articulated Torque Sensor Market Size by Country (2020-2025) & (M USD)
- Table 48. Asia Pacific Articulated Torque Sensor Sales by Region (2020-2025) & (K Units)
- Table 49. Asia Pacific Articulated Torque Sensor Market Size by Region (2020-2025) & (M USD)
- Table 50. South America Articulated Torque Sensor Sales by Country (2020-2025) & (K Units)
- Table 51. South America Articulated Torque Sensor Market Size by Country (2020-2025) & (M USD)
- Table 52. Middle East and Africa Articulated Torque Sensor Sales by Region (2020-2025) & (K Units)
- Table 53. Middle East and Africa Articulated Torque Sensor Market Size by Region

(2020-2025) & (M USD)

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

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

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

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

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

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

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

Table 61. China Articulated 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 Articulated Torque Sensor Product Overview

Table 64. TE Connectivity Articulated 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 Articulated Torque Sensor Product Overview

Table 70. Schunk Articulated 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 Articulated Torque Sensor Product Overview

Table 76. ATI Industrial Automation Articulated 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 Articulated Torque Sensor Product Overview

Table 82. AL.Robot Articulated 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 Articulated Torque Sensor Product Overview

Table 87. Kistler Articulated 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 Articulated Torque Sensor Product Overview

Table 92. Sensodrive Articulated 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 Articulated Torque Sensor Product Overview

Table 97. Bota Systems Articulated 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 Articulated Torque Sensor Product Overview

Table 102. Aidin Robotics Articulated 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 Articulated Torque Sensor Product Overview

Table 107. Sunrise Instruments Articulated 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 Articulated Torque Sensor Product Overview

Table 112. Kunwei Technology Articulated 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 Articulated Torque Sensor Product Overview
- Table 117. Xinjingcheng Sensing Articulated 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 Articulated Torque Sensor Product Overview
- Table 122. Blue Point Touch Articulated 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 Articulated Torque Sensor Product Overview
- Table 127. Bio-inspired Intelligent Articulated 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 Articulated Torque Sensor Product Overview
- Table 132. Right Measurement and control Articulated 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 Articulated Torque Sensor Product Overview
- Table 137. Zhonghang Electronic Measuring Instruments Articulated 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 Articulated Torque Sensor Product Overview
- Table 142. Teamdrive Articulated 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 Articulated Torque Sensor Sales Forecast by Region (2026-2035) & (K Units)

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

List Of Figures

LIST OF FIGURES

- Figure 1. Product Picture of Articulated Torque Sensor
- Figure 2. Data Triangulation
- Figure 3. Key Caveats
- Figure 4. Global Articulated Torque Sensor Market Size (M USD), 2025-2035
- Figure 5. Global Articulated Torque Sensor Market Size (M USD) (2020-2035)
- Figure 6. Global Articulated 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. Articulated Torque Sensor Market Size by Country (M USD)
- Figure 11. Company Assessment Quadrant
- Figure 12. Global Articulated Torque Sensor Product Life Cycle
- Figure 13. Articulated Torque Sensor Sales Share by Manufacturers in 2025
- Figure 14. Global Articulated Torque Sensor Revenue Share by Manufacturers in 2025
- Figure 15. Articulated Torque Sensor Market Share by Company Type (Tier 1, Tier 2 and Tier 3): 2025
- Figure 16. Global Market Articulated Torque Sensor Average Price (USD/Unit) of Key Manufacturers in 2025
- Figure 17. The Global 5 and 10 Largest Players: Market Share by Articulated Torque Sensor Revenue in 2025
- Figure 18. Industry Chain Map of Articulated Torque Sensor
- Figure 19. Global Articulated Torque Sensor Market PEST Analysis
- Figure 20. Global Articulated 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 Articulated Torque Sensor Market Share by Type
- Figure 27. Sales Market Share of Articulated Torque Sensor by Type (2020-2025)
- Figure 28. Sales Market Share of Articulated Torque Sensor by Type in 2025
- Figure 29. Market Share of Articulated Torque Sensor by Type (2020-2025)
- Figure 30. Market Share of Articulated Torque Sensor by Type in 2025
- Figure 31. Evaluation Matrix of Segment Market Development Potential (Application)
- Figure 32. Global Articulated Torque Sensor Market Share by Application

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

Figure 34. Global Articulated Torque Sensor Sales Market Share by Application in 2025

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

Figure 36. Global Articulated Torque Sensor Market Share by Application in 2025

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

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

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

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

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

Figure 42. North America Articulated Torque Sensor Sales Market Share by Country in 2024

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

Figure 44. North America Articulated Torque Sensor Market Size by Country in 2024

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

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

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

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

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

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

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

Figure 52. Europe Articulated Torque Sensor Sales Market Share by Country in 2024

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

Figure 54. Europe Articulated Torque Sensor Market Size by Country in 2024

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

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

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

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

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

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

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

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

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

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

Figure 65. Asia Pacific Articulated Torque Sensor Sales and Growth Rate (K Units)

Figure 66. Asia Pacific Articulated Torque Sensor Sales Market Share by Region in 2024

Figure 67. Asia Pacific Articulated Torque Sensor Market Size by Region in 2024

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

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

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

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

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

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

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

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

Figure 76. Southeast Asia Articulated Torque Sensor Sales and Growth Rate

(2020-2025) & (K Units)

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

Figure 78. South America Articulated Torque Sensor Sales and Growth Rate (K Units)

Figure 79. South America Articulated Torque Sensor Sales Market Share by Country in 2024

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

Figure 81. South America Articulated Torque Sensor Market Size by Country in 2024

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

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

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

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

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

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

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

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

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

Figure 91. Middle East and Africa Articulated Torque Sensor Market Size by Region in 2024

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

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

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

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

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

- Figure 97. Egypt Articulated Torque Sensor Market Size and Growth Rate (2020-2025) & (M USD)
- Figure 98. Nigeria Articulated Torque Sensor Sales and Growth Rate (2020-2025) & (K Units)
- Figure 99. Nigeria Articulated Torque Sensor Market Size and Growth Rate (2020-2025) & (M USD)
- Figure 100. South Africa Articulated Torque Sensor Sales and Growth Rate (2020-2025) & (K Units)
- Figure 101. South Africa Articulated Torque Sensor Market Size and Growth Rate (2020-2025) & (M USD)
- Figure 102. Global Articulated Torque Sensor Production Market Share by Region (2020-2025)
- Figure 103. North America Articulated Torque Sensor Production (K Units) Growth Rate (2020-2025)
- Figure 104. Europe Articulated Torque Sensor Production (K Units) Growth Rate (2020-2025)
- Figure 105. Japan Articulated Torque Sensor Production (K Units) Growth Rate (2020-2025)
- Figure 106. China Articulated Torque Sensor Production (K Units) Growth Rate (2020-2025)
- Figure 107. Global Articulated Torque Sensor Sales Forecast by Volume (2020-2035) & (K Units)
- Figure 108. Global Articulated Torque Sensor Market Size Forecast by Value (2020-2035) & (M USD)
- Figure 109. Global Articulated Torque Sensor Sales Market Share Forecast by Type (2026-2035)
- Figure 110. Global Articulated Torque Sensor Market Share Forecast by Type (2026-2035)
- Figure 111. Global Articulated Torque Sensor Sales Forecast by Application (2026-2035)
- Figure 112. Global Articulated Torque Sensor Market Share Forecast by Application (2026-2035)

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