

Global Robotic Joint Torque Sensors Market 2025 by Manufacturers, Regions, Type and Application, Forecast to 2031

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Abstracts

According to our (Global Info Research) latest study, the global Robotic Joint Torque Sensors market size was valued at US\$ 59.5 million in 2024 and is forecast to a readjusted size of USD 116 million by 2031 with a CAGR of 8.7% during review period.

A Robotic Joint Torque Sensor is a specialized sensor designed to measure the torque (rotational force) applied at the joints of a robot. These sensors provide real-time feedback on the forces acting within the robot's joints, enabling precise control, stability, and safe interaction with the environment or humans. They are critical components in robotics, particularly in humanoid robots, industrial robots, and collaborative robots (cobots).

This report is a detailed and comprehensive analysis for global Robotic Joint Torque Sensors market. Both quantitative and qualitative analyses are presented by manufacturers, by region & country, by Type and by Application. As the market is constantly changing, this report explores the competition, supply and demand trends, as well as key factors that contribute to its changing demands across many markets. Company profiles and product examples of selected competitors, along with market share estimates of some of the selected leaders for the year 2025, are provided.

Key Features:

Global Robotic Joint Torque Sensors market size and forecasts, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2020-2031

Global Robotic Joint Torque Sensors market size and forecasts by region and country,

in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2020-2031

Global Robotic Joint Torque Sensors market size and forecasts, by Type and by Application, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2020-2031

Global Robotic Joint Torque Sensors market shares of main players, shipments in revenue (\$ Million), sales quantity (K Units), and ASP (US\$/Unit), 2020-2025

The Primary Objectives in This Report Are:

- To determine the size of the total market opportunity of global and key countries
- To assess the growth potential for Robotic Joint Torque Sensors
- To forecast future growth in each product and end-use market
- To assess competitive factors affecting the marketplace

This report profiles key players in the global Robotic Joint Torque Sensors market based on the following parameters - company overview, sales quantity, revenue, price, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include ATI Industrial Automation, AL.Robot., TE Connectivity, Schunk, Advanced Mechanical Technology, Kistler, Sensodrive, Bota Systems, Aidin Robotics, ULTRAFORCE, etc.

This report also provides key insights about market drivers, restraints, opportunities, new product launches or approvals.

Market Segmentation

Robotic Joint Torque Sensors market is split by Type and by Application. For the period 2020-2031, the growth among segments provides accurate calculations and forecasts for consumption value by Type, and by Application in terms of volume and value. This analysis can help you expand your business by targeting qualified niche markets.

Market segment by Type

Strain Gauge Type

MENS Type

Others

Market segment by Application

Industrial Robots

Medical Robots

Humanoid Robots

Others

Major players covered

ATI Industrial Automation

AL.Robot.

TE Connectivity

Schunk

Advanced Mechanical Technology

Kistler

Sensodrive

Bota Systems

Aidin Robotics

ULTRAFORCE

Sunrise Instruments (SRI)

Kunwei Beijing Technology

Shenzhen Xinjingcheng Sensing Technolog

Blue Point Touch (Beijing) Technology

Nanjing Bio-inspired Intelligent Technology

Changzhou Right Measurement and control system

Forsentek

Zhonghang Electronic Measuring Instruments

Teamdrive

Market segment by region, regional analysis covers

North America (United States, Canada, and Mexico)

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

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

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

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

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

Chapter 1, to describe Robotic Joint Torque Sensors product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Robotic Joint Torque Sensors, with price, sales quantity, revenue, and global market share of Robotic Joint Torque Sensors from 2020 to 2025.

Chapter 3, the Robotic Joint Torque Sensors competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the Robotic Joint Torque Sensors breakdown data are shown at the regional level, to show the sales quantity, consumption value, and growth by regions, from 2020

to 2031.

Chapter 5 and 6, to segment the sales by Type and by Application, with sales market share and growth rate by Type, by Application, from 2020 to 2031.

Chapter 7, 8, 9, 10 and 11, to break the sales data at the country level, with sales quantity, consumption value, and market share for key countries in the world, from 2020 to 2025. and Robotic Joint Torque Sensors market forecast, by regions, by Type, and by Application, with sales and revenue, from 2026 to 2031.

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

Chapter 13, the key raw materials and key suppliers, and industry chain of Robotic Joint Torque Sensors.

Chapter 14 and 15, to describe Robotic Joint Torque Sensors sales channel, distributors, customers, research findings and conclusion.

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